



PRODUCT CATALOGUE LOW VOLTAGE POWER CABLES

PT. LSAG Cable Indonesia

The World Best Cable Solution Leader



LS-AG Cable Indonesia

THE WORLD BEST CABLE SOLUTION LEADER

About LS Cable & System

LS Cable & System supplies various cables and materials used for power grids and communication networks around the world across all industries providing its top class technology and excellent quality.

The company has also developed state of the art products, such as superconductors, HVDC and submarine cables that will lead the future energy industry.

LS spun off from LG in 2003 as a group specializing in electronics, electrical systems, energy and materials.



SYNERGIZING STRENGTHS

About PT. LSAG Cable Indonesia

LS Cable & System (formerly known as LG Cable) was established in 1962 and now has become one of the biggest global cable manufacturers in the world producing a wide range of Power and Telecommunication cables including submarine and superconducting cables. By setting company mission to "Enable the Cabled World" and company vision to be "The World Best Cable Solution Leader", LS Cable & System will strive to achieve it through four strategic directions: Globalization; an innovative business model; advanced business management systems; and an innovative corporate culture.

Therefore, as one of company strategic direction for globalization and also to grow the company business in Indonesia market in line with Indonesia government's initiative to use locally made products (TKDN / manufactured local content level), we established PT. LSAG Cable Indonesia on 20th August 2018, a joint venture of LS Cable & System-Korea and PT. Artha Metal Sinergi (a member of Artha Graha Network/AGN).



PT. LSAG Cable Indonesia factory is located in Artha Industrial Hills Karawang producing a wide range of Low Voltage Power cables for several applications such as Substation, Power plant, Overhead Transmission Line, Industrial, Building, Oil and gas and also renewable energy sector. By having technical assistance and full support from LS Cable & System Korea cable expert supported by Indonesian experienced cable engineers, we are fully confident to produce and supply high-quality cable products complying to Indonesia Cable specification (SPLN and SNI) as well as international specification such as IEC, ASTM, BS, AS/NZS, DIN, VDE, JIS and NEMA for Indonesia market and will also utilize our Indonesia cable factory for supplying to LS global overseas markets.

PT. LSAG Cable Indonesia
A Global Brand, Indonesian Made
by Advanced Global Cable Technology





Contents:

PVC INSULATION BUILDING WIRE CABLE

1. NYA (Cu/PVC) 450/750 V

Single Core 1.5 – 400 mm²

01

2. NYAF (Cu / PVC-f) 450/750 V

Single Core 1.5 - 240 mm²

02

3. NAYA (Al/PVC) 450/750 V

Single Core 1.5 – 400 mm²

03

4. NYM (Cu/PVC/PVC) 300/500 V

2 Cores (1.5 - 35) mm²

04

3 Cores (1.5 - 35) mm²

05

4 Cores (1.5 - 35) mm²

06

5 Cores (1.5 - 35) mm²

07

5. NYMHY (Cu/PVC/PVC-f) 300/500 V

2 - 5 Cores (0.75 – 2.5) mm²

08

6. NYYHY (Cu/PVC/PVC-f) 450/750 V

2 Cores (1.5 - 300) mm²

09

3 Cores (1.5 - 300) mm²

10

4 Cores (1.5 - 300) mm²

11

5 Cores (1.5 - 50) mm²

12

PVC INSULATION LV CABLE

7. NYY (Cu/PVC/PVC) 0.6/1(1.2) kV

Single core (1.5 – 630) mm²

13

2 Cores (1.5 - 300) mm²

14

3 Cores (1.5 - 300) mm²

15

4 Cores (1.5 - 300) mm²

16

5 Cores (1.5 - 50) mm²

17

8. NYSY (Cu/PVC/CTS/PVC) 0.6/1(1.2) kV

Single core (1.5 – 630) mm²

18

2 Cores (1.5 - 300) mm²

19

3 Cores (1.5 - 300) mm²

20

4 Cores (1.5 - 300) mm²

21

5 Cores (1.5 - 50) mm²

22

9. NYR(Al)Y (Cu/PVC/AWA/PVC) 0.6/1(1.2) kV

Single core (10 – 630) mm²

23

NYRY (Cu/PVC/SWA/PVC) 0.6/1(1.2) kV

2 Cores (1.5 - 300) mm²

24

3 Cores (1.5 - 300) mm²

25

4 Cores (1.5 - 300) mm²

26

5 Cores (1.5 - 50) mm²

27

10. NYRGbY (Cu/PVC/SWA/PVC) 0.6/1(1.2) kV

2 Cores (1.5 - 300) mm²

28

3 Cores (1.5 - 300) mm²

29

4 Cores (1.5 - 300) mm²

30

5 Cores (1.5 - 50) mm²

31

11. NYFGbY (Cu/PVC/SFA/PVC) 0.6/1(1.2) kV

2 Cores (1.5 - 300) mm²

32

3 Cores (1.5 - 300) mm²

33

4 Cores (1.5 - 300) mm²

34

5 Cores (1.5 - 50) mm²

35

12. NYCY (Cu/PVC/CWS/PVC) 0.6/1(1.2) kV

Single core (1.5 – 630) mm²

36

2 Cores (1.5 - 300) mm²

37

3 Cores (1.5 - 300) mm²

38

4 Cores (1.5 - 300) mm²

39

5 Cores (1.5 - 50) mm²

40

13. NYB(Al)Y (Cu/PVC/DATA/PVC) 0.6/1(1.2) kV

Single core (16 – 630) mm²

41

NYBY (Cu/PVC/DSTA/PVC) 0.6/1(1.2) kV

2 Cores (1.5 - 300) mm²

42

3 Cores (1.5 - 300) mm²

43

4 Cores (1.5 - 300) mm²

44

5 Cores (1.5 - 50) mm²

45



XLPE INSULATION LV CABLE

14. N2XY (Cu/XLPE/PVC) 0.6/1 (1.2) kV

Single core (1.5 – 630) mm ²
2 Cores (1.5 – 300) mm ²
3 Cores (1.5 – 300) mm ²
4 Cores (1.5 – 300) mm ²
5 Cores (1.5 – 50) mm ²

15. NA2XY (Al/XLPE/PVC) 0.6/1 (1.2) kV

Single core (1.5 – 630) mm ²
2 Cores (1.5 – 300) mm ²
3 Cores (1.5 – 300) mm ²
4 Cores (1.5 – 300) mm ²
5 Cores (1.5 – 50) mm ²

16. N2XR(Al)Y (Cu/XLPE/AWA/PVC) 0.6/1(1.2) kV

Single core (25 – 630) mm ²
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N2XRY (Cu/XLPE/SWA/PVC) 0.6/1(1.2) kV

2 Cores (1.5 – 300) mm ²
3 Cores (1.5 – 300) mm ²
4 Cores (1.5 – 300) mm ²
5 Cores (1.5 – 50) mm ²

17. N2XFGbY (Cu/XLPE/SFA/PVC) 0.6/1(1.2) kV

2 Cores (1.5 – 300) mm ²
3 Cores (1.5 – 300) mm ²
4 Cores (1.5 – 300) mm ²
5 Cores (1.5 – 50) mm ²

18. N2XB(Al)Y (Cu/XLPE/DATA/PVC) 0.6/1(1.2) kV

Single core (16 – 630) mm ²
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N2XBY (Cu/XLPE/DSTA/PVC) 0.6/1(1.2) kV

2 Cores (1.5 – 300) mm ²
3 Cores (1.5 – 300) mm ²
4 Cores (1.5 – 300) mm ²
5 Cores (1.5 – 50) mm ²

FIRE RESISTANCE CABLE (FRC) – Non Armoured

19. N2XY-FRC (Cu/Mica/XLPE/PVC) 0.6/1 (1.2) kV

46	Single core (1.5 – 630) mm ²	70
47	2 Cores (1.5 – 300) mm ²	71
48	3 Cores (1.5 – 300) mm ²	72
49	4 Cores (1.5 – 300) mm ²	73
50	5 Cores (1.5 – 50) mm ²	74

FIRE RESISTANCE CABLE (FRC) – Armoured

20. N2XR(Al)Y-FRC (Cu/Mica/XLPE/AWA/PVC) 0.6/1 (1.2) kV

51	Single core (25 – 630) mm ²	75
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N2XRY-FRC (Cu/Mica/XLPE/SWA/PVC) 0.6/1 (1.2) kV

52	2 Cores (1.5 – 300) mm ²	76
53	3 Cores (1.5 – 300) mm ²	77
54	4 Cores (1.5 – 300) mm ²	78
55	5 Cores (1.5 – 50) mm ²	79

21. N2XB(Al)Y-FRC (Cu/Mica/XLPE/DATA/PVC) 0.6/1 (1.2) kV

56	Single core (25 – 630) mm ²	80
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N2XBY-FRC (Cu/Mica/XLPE/DSTA/PVC) 0.6/1 (1.2) kV

57	2 Cores (1.5 – 300) mm ²	81
58	3 Cores (1.5 – 300) mm ²	82
59	4 Cores (1.5 – 300) mm ²	83
60	5 Cores (1.5 – 50) mm ²	84

61
62
63
64

65

66

67

68

69



NYA 1.5 - 400 mm²
Cu / PVC
(Copper Conductor, PVC Insulated)
Standard Specification : SNI 04-6629.3, IEC 60227-3

APPLICATION :

For building wire installed in conduit in dry location and interwiring in switch board and control panel. Can be used as grounding cable, inherently flame retardant in compliance with IEC 60332.

Special Features on Request

- Flame Retardant Non Category

Note :
Conductor Shaped

1.5 - 10 sqmm supplied in solid (re) or round stranded (rm) conductor shape
16 - 400 sqmm supplied in round stranded (rm) conductor shape

Standard Packing

1.5 - 16 sqmm supplied in coil @ 100 m or wooden drum @ 500m

25 - 400 sqmm supplied in wooden drum @ 1000 m

Length Tolerance per drum $\pm 1.5\%$

Minimum Bending radius fixed installation

Single core : $6 \times D$

D is overall diameter of cable

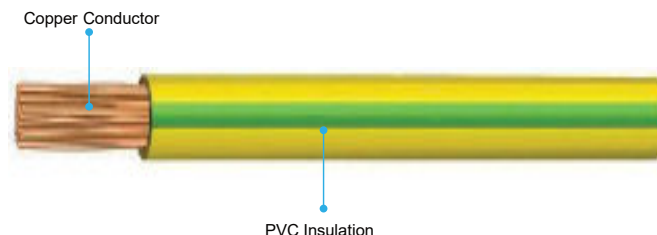
Construction Data

Nom. Cross Sect. mm ²	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240	300	400
Overall diameter (Approx.) mm	3.0	3.6	4.2	4.7	6.1	7.0	8.8	9.9	11.8	13.5	15.7	17.2	19.1	21.5	24.9	27.3	30.7
Bending radius mm	18	22	25	28	36	42	53	59	71	81	94	103	114	129	149	164	184
Cable Weight (Approx.) kg/km	22	34	50	69	116	171	275	366	508	702	953	1,178	1,444	1,831	2,407	2,951	3,772

Electrical Data

Nom. Cross Sect. (mm ²)	Conductor DC Resistance at 20°C Max. (Ω/km)	AC Resistance at 70°C Max. (Ω/km)	Insulation Resistance at 70°C Min. (MΩ.km)	Current-Carrying Capacity at 30°C		Inductance (mH/km)	Short circuit current at 1 sec Max. (kA)
				in pipe Max. (A)	in air Max. (A)		
1.5	12.1	14.5	0.010	15	24	0.315	0.17
2.5	7.41	8.87	0.009	20	32	0.304	0.29
4	4.61	5.52	0.0077	25	43	0.285	0.46
6	3.08	3.69	0.0065	33	54	0.271	0.69
10	1.83	2.19	0.0065	45	74	0.269	1.15
16	1.15	1.38	0.0050	61	98	0.255	1.84
25	0.727	0.870	0.0050	83	140	0.255	2.88
35	0.524	0.627	0.0040	104	159	0.247	4.03
50	0.387	0.464	0.0045	132	198	0.248	5.75
70	0.268	0.321	0.0035	166	247	0.238	8.05
95	0.193	0.232	0.0035	198	293	0.236	10.93
120	0.153	0.184	0.0032	236	345	0.230	13.80
150	0.124	0.150	0.0032	-	391	0.230	17.25
185	0.0991	0.121	0.0032	-	449	0.232	21.28
240	0.0754	0.0935	0.0032	-	529	0.232	27.60
300	0.0601	0.0752	0.0030	-	609	0.228	34.50
400	0.0470	0.0600	0.0028	-	726	0.228	41.20

NYAF 1.5 - 240 mm² Cu / PVC-f



APPLICATION :

Power cord or internal wiring with low mechanical stress for electrical equipments, machineries, distribution panels, luminaires and other electrical used in dry indoor premises, substitutes NYA.

Construction Data

Nom. Cross Sect.	mm ²	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240
Overall diameter (Approx.)	mm	3.2	3.9	4.5	5.1	6.5	7.6	9.3	10.5	12.5	14.3	16.4	18.1	20.1	22.3	25.4
Bending radius	mm	48	59	68	77	98	114	140	158	188	215	246	272	302	335	381
Cable Weight (Approx.)	kg/km	22	34	50	69	115	168	262	352	480	673	919	1141	1410	1767	2310

Electrical Data

Nom. Cross Sect.	Conductor		Insulation Resistance at 70°C Min.	Current-Carrying Capacity at 30°C in air Max.	Inductance	Short circuit current at 1 sec Max.
	DC Resistance at 20°C Max.	AC Resistance at 70°C Max.				
(mm ²)	(/km)	(/km)	(M. ..km)	(A)	(mH/km)	(kA)
1.5	13.3	15.9	0.010	22	0.331	0.17
2.5	7.98	9.55	0.009	30	0.319	0.29
4	4.95	5.92	0.007	40	0.300	0.46
6	3.30	3.95	0.006	50	0.284	0.69
10	1.91	2.29	0.0056	71	0.279	1.15
16	1.21	1.45	0.0046	93	0.265	1.84
25	0.780	0.933	0.0044	130	0.261	2.88
35	0.554	0.663	0.0038	150	0.252	4.03
50	0.386	0.462	0.0037	199	0.250	5.75
70	0.272	0.325	0.0032	243	0.242	8.05
95	0.206	0.246	0.0032	275	0.242	10.93
120	0.161	0.193	0.0029	328	0.237	13.80
150	0.129	0.154	0.0029	376	0.236	17.25
185	0.106	0.127	0.0029	420	0.237	21.28
240	0.0801	0.0958	0.0028	498	0.235	27.60

NAYA 16 - 400 mm²

Al / PVC

(Aluminium Conductor, PVC Insulated)

Standard Specification : SNI 04-6629.3, IEC 60227-3



APPLICATION :

For building wire installed in conduit in dry location and interwiring in switch board and control panel. Can be used as grounding cable, inherently flame retardant in compliance with IEC 603322.

Special Features on Request

- Flame Retardant Non Category

Note :

Conductor Shaped

1.5 - 10 sqmm supplied in solid (re) or round stranded (rm) conductor shape

16 - 400 sqmm supplied in round stranded (rm) conductor shape

Standard Packing

10 - 400 sqmm supplied in wooden drum @ 1000 m
Length Tolerance per drum $\pm 1.5\%$

Minimum Bending radius fixed installation

Single core : $8 \times D$
D is overall diameter of cable

Construction Data

Nom. Cross Sect.	mm ²	10	16	25	35	50	70	95	120	150	185	240	300	400
Overall diameter (Approx.)	mm	4.0	5.0	6.3	7.4	8.8	10.5	12.4	14.0	15.5	17.3	19.9	22.3	25.2
Bending radius	mm	32	40	50	59	70	84	99	112	124	139	159	178	201
Cable Weight (Approx.)	kg/km	26	42	66	92	125	180	250	315	388	486	639	802	1,023

Electrical Data

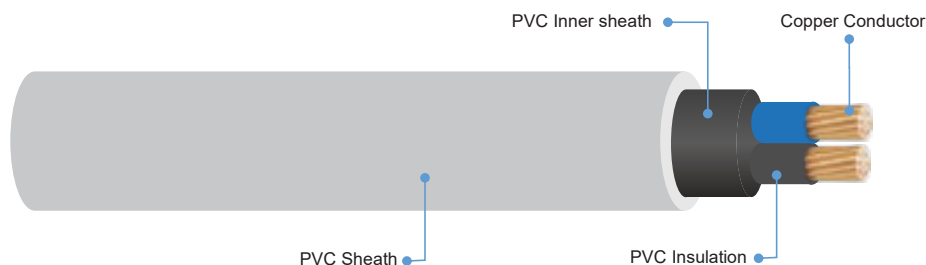
Nom. Cross Sect.	Conductor		Insulation Resistance at 70°C Min.	Current-Carrying Capacity at 30°C		Inductance	Short circuit current at 1 sec Max.
	DC Resistance at 20°C Max.	AC Resistance at 70°C Max.		in pipe Max.	in air Max.		
(mm ²)	(Ω/km)	(Ω/km)	(M.Ω.km)	(A)	(A)	(mH/km)	(kA)
10	3.08	3.70	0.0065	32	53	0.347	0.76
16	1.91	2.30	0.0050	41	70	0.323	1.22
25	1.20	1.44	0.0050	57	106	0.309	1.90
35	0.868	1.040	0.0040	79	122	0.295	2.66
50	0.641	0.770	0.0045	103	154	0.288	3.80
70	0.443	0.533	0.0035	127	190	0.274	5.32
95	0.320	0.385	0.0035	153	227	0.270	7.22
120	0.253	0.305	0.0032	183	268	0.262	9.12
150	0.206	0.249	0.0032	-	304	0.261	11.40
185	0.164	0.198	0.0032	-	348	0.260	14.06
240	0.125	0.152	0.0032	-	409	0.256	18.24
300	0.100	0.122	0.0030	-	475	0.254	22.80
400	0.0778	0.0960	0.0028	-	570	0.251	27.20

NYM 2 x (1.5 - 35) mm²

Cu / PVC / PVC

(Copper Conductor, PVC Insulated, PVC Sheathed)

Standard Specification : SNI 04-6629.4, IEC 60227-4



APPLICATION :

For building wire installed in conduit in dry location and interwiring in switch board and control panel. Can be used as grounding cable, inherently flame retardant in compliance with IEC 60332-1.

Special Features on Request

- Flame Retardant Non Category

Note :

Conductor Shaped

1.5 - 10 sqmm supplied in solid (re) or round stranded (rm) conductor shape
16 - 35 sqmm supplied in round stranded (rm) conductor shape

Standard Packing

1.5 - 10 sqmm supplied in coil @50 m or @ 100 m or wooden drum @ 1000m

16 - 35 sqmm supplied in wooden drum @ 1000 m

Length Tolerance per drum $\pm 1.5\%$

Minimum Bending radius fixed installation

Multi Core : 6 x D

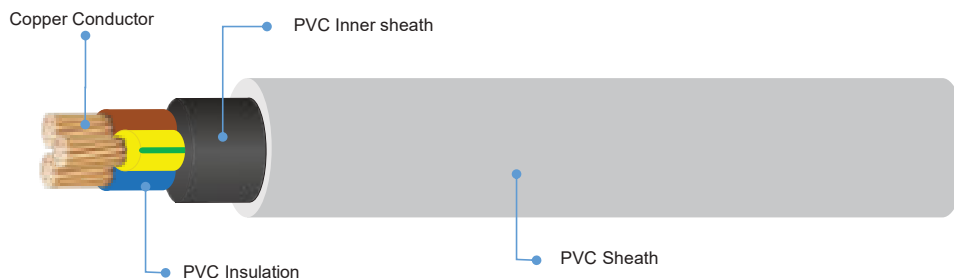
D is overall diameter of cable

Construction Data

Nom.Cross Sect.	mm ²	1.5	2.5	4	6	10	16	25	35
Overall diameter (Approx.)	mm	9.5	10.5	11.5	12.3	15.5	18.5	22.5	25.0
Bending radius	mm	57	63	69	74	93	111	135	150
Cable Weight (Approx.)	kg/km	114	154	199	257	417	625	942	1261

Electrical Data

Nom. Cross Sect.	Conductor		Insulation Resistance at 70°C Min.	Current-Carrying Capacity at 30°C in air Max.	Inductance	Short circuit current at 1 sec Max.
	DC Resistance at 20°C Max.	AC Resistance at 70°C Max.				
(mm ²)	(Ω /km)	(Ω /km)	(M. Ω .km)	(A)	(mH/km)	(kA)
1.5	12.1	14.5	0.010	18	0.330	0.17
2.5	7.41	8.87	0.009	26	0.320	0.29
4	4.61	5.52	0.0077	34	0.301	0.46
6	3.08	3.69	0.0065	44	0.287	0.69
10	1.83	2.19	0.0065	61	0.284	1.15
16	1.15	1.38	0.0052	82	0.270	1.84
25	0.727	0.870	0.0050	108	0.271	2.88
35	0.524	0.627	0.0044	135	0.263	4.03

NYM 3 x (1.5 - 35) mm²
Cu / PVC / PVC
(Copper Conductor, PVC Insulated, PVC Sheathed)
Standard Specification : SNI 04-6629.4, IEC 60227-4

APPLICATION :

For building wire installed in conduit in dry location and interwiring in switch board and control panel. Can be used as grounding cable, inherently flame retardant in compliance with IEC 60332-1.

Special Features on Request

- Flame Retardant Non Category

Note :
Conductor Shaped

1.5 - 10 sqmm supplied in solid (re) or round

stranded (rm) conductor shape

16 - 35 sqmm supplied in round stranded (rm)

conductor shape

Standard Packing

1.5 - 10 sqmm supplied in coil @50 m or @ 100 m
or wooden drum @ 1000m

16 - 35 sqmm supplied in wooden drum @ 1000 m

Length Tolerance per drum $\pm 1.5\%$

Minimum Bending radius fixed installation

Multi Core : 6 x D

D is overall diameter of cable

Construction Data

Nom. Cross Sect.	mm ²	1.5	2.5	4	6	10	16	25	35
Overall diameter (Approx.)	mm	10.0	11.0	11.5	13.0	16.5	20.0	24.0	26.5
Bending radius	mm	60	66	69	78	99	120	144	159
Cable Weight (Approx.)	kg/km	133	182	241	328	516	799	1220	1589

Electrical Data

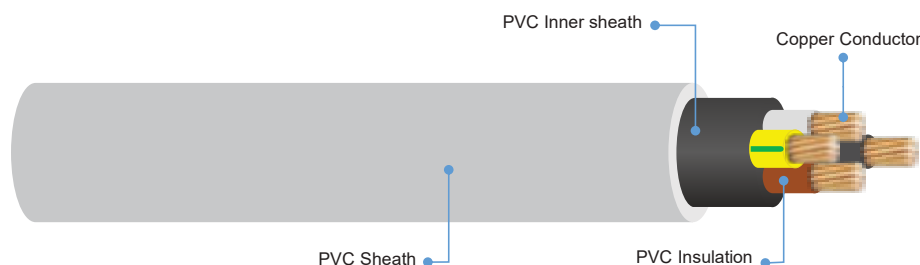
Nom. Cross Sect.	Conductor		Insulation	Current-Carrying Capacity at 30°C in air Max.	Inductance	Short circuit current at 1 sec Max.
	DC Resistance at 20°C Max.	AC Resistance at 70°C Max.	Insulation Resistance at 70°C Min.			
(mm ²)	(Ω /km)	(Ω /km)	(M. Ω .km)	(A)	(mH/km)	(kA)
1.5	12.1	14.5	0.010	18	0.330	0.17
2.5	7.41	8.87	0.009	26	0.320	0.29
4	4.61	5.52	0.0077	34	0.301	0.46
6	3.08	3.69	0.0065	44	0.287	0.69
10	1.83	2.19	0.0065	61	0.284	1.15
16	1.15	1.38	0.0052	82	0.270	1.84
25	0.727	0.870	0.0050	108	0.271	2.88
35	0.524	0.627	0.0044	135	0.263	4.03

NYM 4 x (1.5 - 35) mm²

Cu / PVC / PVC

(Copper Conductor, PVC Insulated, PVC Sheathed)

Standard Specification : SNI 04-6629.4, IEC 60227-4



APPLICATION :

For building wire installed in conduit in dry location and interwiring in switch board and control panel. Can be used as grounding cable, inherently flame retardant in compliance with IEC 60332-1.

Special Features on Request

- Flame Retardant Non Category

Note :

Conductor Shaped

1.5 - 10 sqmm supplied in solid (re) or round stranded (rm) conductor shape
16 - 35 sqmm supplied in round stranded (rm) conductor shape

Standard Packing

1.5 - 10 sqmm supplied in coil @50 m or @ 100 m or wooden drum @ 1000m
16 - 35 sqmm supplied in wooden drum @ 1000 m
Length Tolerance per drum $\pm 1.5\%$

Minimum Bending radius fixed installation

Multi Core : $6 \times D$
D is overall diameter of cable

Construction Data

Nom.Cross Sect.	mm ²	1.5	2.5	4	6	10	16	25	35
Overall diameter (Approx.)	mm	10.5	11.5	13.0	15.0	18.0	22.0	26.5	29.0
Bending radius	mm	63	69	78	90	108	132	159	174
Cable Weight (Approx.)	kg/km	158	219	305	415	635	1019	1567	2011

Electrical Data

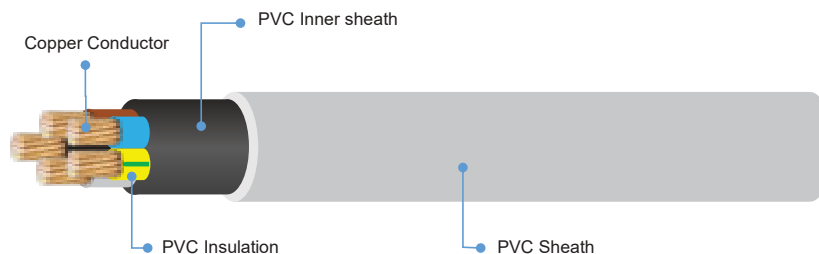
Nom. Cross Sect.	Conductor		Insulation	Current-Carrying Capacity at 30°C in air Max.	Inductance	Short circuit current at 1 sec Max.
	DC Resistance at 20°C Max.	AC Resistance at 70°C Max.	Insulation Resistance at 70°C Min.			
(mm ²)	(Ω /km)	(Ω /km)	(M. Ω .km)	(A)	(mH/km)	(kA)
1.5	12.1	14.5	0.010	18	0.330	0.17
2.5	7.41	8.87	0.009	26	0.320	0.29
4	4.61	5.52	0.0077	34	0.301	0.46
6	3.08	3.69	0.0065	44	0.287	0.69
10	1.83	2.19	0.0065	61	0.284	1.15
16	1.15	1.38	0.0052	82	0.270	1.84
25	0.727	0.870	0.0050	108	0.271	2.88
35	0.524	0.627	0.0044	135	0.263	4.03

NYM 5 x (1.5 - 35) mm²

Cu / PVC / PVC

(Copper Conductor, PVC Insulated, PVC Sheathed)

Standard Specification : SNI 04-6629.4, IEC 60227-4



APPLICATION :

For building wire installed in conduit in dry location and interwiring in switch board and control panel. Can be used as grounding cable, inherently flame retardant in compliance with IEC 60332-1.

Special Features on Request

- Flame Retardant Non Category

Note :

Conductor Shaped

1.5 - 10 sqmm supplied in solid (re) or round stranded (rm) conductor shape
16 - 35 sqmm supplied in round stranded (rm) conductor shape

Standard Packing

1.5 - 2.5 sqmm supplied in coil @50 m or @ 100 m or wooden drum @ 1000m
4 - 35 sqmm supplied in wooden drum @ 1000 m
Length Tolerance per drum $\pm 1.5\%$

Minimum Bending radius fixed installation

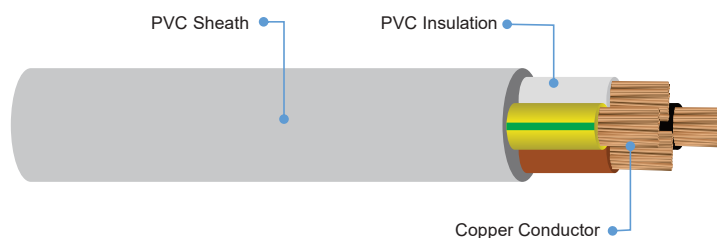
Multi Core : 6 x D
D is overall diameter of cable

Construction Data

Nom.Cross Sect.	mm ²	1.5	2.5	4	6	10	16	25	35
Overall diameter (Approx.)	mm	11.5	12.5	14.3	16.0	19.5	24.0	29.0	32.5
Bending radius	mm	69	75	86	96	117	144	174	195
Cable Weight (Approx.)	kg/km	194	272	392	513	788	1265	1913	2496

Electrical Data

Nom. Cross Sect.	Conductor		Insulation	Current-Carrying Capacity at 30°C in air Max.	Inductance	Short circuit current at 1 sec Max.
	DC Resistance at 20°C Max.	AC Resistance at 70°C Max.	Insulation Resistance at 70°C Min.			
(mm ²)	(Ω /km)	(Ω /km)	(M. Ω .km)	(A)	(mH/km)	(kA)
1.5	12.1	14.5	0.010	18	0.330	0.17
2.5	7.41	8.87	0.009	26	0.320	0.29
4	4.61	5.52	0.0077	34	0.301	0.46
6	3.08	3.69	0.0065	44	0.287	0.69
10	1.83	2.19	0.0065	61	0.284	1.15
16	1.15	1.38	0.0052	82	0.270	1.84
25	0.727	0.870	0.0050	108	0.271	2.88
35	0.524	0.627	0.0044	135	0.263	4.03

NYMHY 2 - 5 cores x (0.75 - 2.5) mm²
Cu / PVC / PVC-f
(Flexible Copper Conductor, PVC Insulated, PVC Sheathed)
Standard Specification : SNI 04-6629.5

APPLICATION :

Power cord or internal wiring with medium mechanical stress for electrical equipment, machineries, luminaries and other portable appliances in dry indoor premises.

Special Features on Request

- Flame Retardant Non Category

Standard Packing

0.75 - 2.5 sqmm supplied in Coil @ 50 m, 100 m or wooden drum @ 1000 m
Length Tolerance per drum $\pm 1.5\%$

Construction Data

		2 cores				3 cores				4 cores				5 cores			
Nom.Cross Sect.	mm ²	0.75	1.0	1.5	2.5	0.75	1.0	1.5	2.5	0.75	1.0	1.5	2.5	0.75	1.0	1.5	2.5
Overall diameter (Approx.)	mm	6.5	6.7	7.7	9.5	6.9	7.1	8.4	10.3	7.5	7.9	9.3	11.2	8.4	8.7	10.4	12.5
Cable Weight (Approx.)	kg/km	45	46	59	82	62	70	99	152	77	91	128	190	96	110	159	236

Electrical Data

Conductor		2 till 4 Cores	5 Cores	Short circuit current at 1 sec Max.
Nom. Cross Sect.	DC Resistance at 20°C Max.	Current-Carrying Capacity at 30°C in air Max.	Current-Carrying Capacity at 30°C in air Max.	
		(A)	(A)	
(mm ²)	(Ω /km)	(A)	(A)	(kA)
0.75	26.0	6	4	0.09
1.0	19.5	10	8	0.12
1.5	13.3	15	12	0.17
2.5	7.98	20	17	0.29

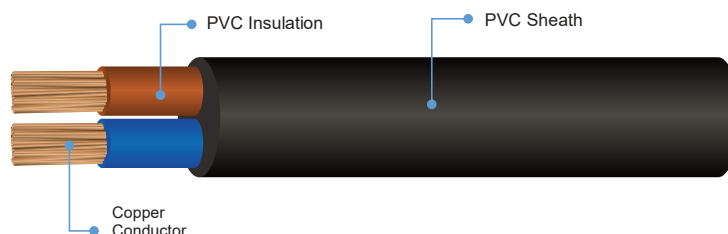
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NYYHY 2 x (1.5 - 300) mm²

Cu / PVC / PVC-f

(Flexible Copper Conductor, PVC Insulated, PVC Sheathed)

Standard Specification : IEC 60227



APPLICATION :

Power cord or internal wiring with medium mechanical stress for electrical equipment, machineries, luminaries and other portable appliances in dry indoor premises.

Special Features on Request

- Flame Retardant Non Category
- Heat Resistance
- Oil Resistance
- UV Resistance
- Anti Termite
- Anti Rodent

Standard Packing

1.5 - 150 sqmm supplied in wooden drum @ 1000 m
185 sqmm and above will be supplied in wooden drum on available length
Length Tolerance per drum $\pm 1.5\%$

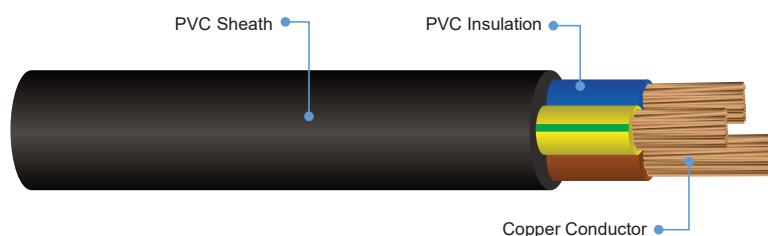
Construction Data

Nom.Cross Sect.	mm ²	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
Overall diameter (Approx.)	mm	7.9	9.3	10.5	11.9	14.9	18.3	22.7	26.5	30.7	34.7	39.5	42.3	45.9	52.7	57.1	63.3
Cable Weight (Approx.)	kg/km	83	117	157	209	333	485	735	996	1,381	1,794	2,330	2,813	3,322	4,190	5,209	6,284

Electrical Data

Conductor		Current-Carrying Capacity at 30°C in air Max.	Short circuit current at 1 sec Max.
Nom. Cross Sect.	DC Resistance at 20°C Max.		
(mm ²)	(Ω /km)	(A)	(kA)
1.5	13.3	15	0.17
2.5	7.98	20	0.29
4	4.95	26	0.46
6	3.30	33	0.69
10	1.91	45	1.15
16	1.21	61	1.84
25	0.780	80	2.88
35	0.554	98	4.03
50	0.386	122	5.75
70	0.272	152	8.05
95	0.206	175	10.93
120	0.161	198	13.80
150	0.129	221	17.25
185	0.106	243	21.28
240	0.0801	280	27.60
300	0.0641	313	34.50

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NYYHY 3 x (1.5 - 300) mm²
Cu / PVC / PVC-f
(Flexible Copper Conductor, PVC Insulated, PVC Sheathed)
Standard Specification : IEC 60227

APPLICATION :

Power cord or internal wiring with medium mechanical stress for electrical equipment, machineries, luminaries and other portable appliances in dry indoor premises.

Special Features on Request

- Flame Retardant Non Category
- Heat Resistance
- Oil Resistance
- UV Resistance
- Anti Termite
- Anti Rodent

Note :
Standard Packing

1.5 - 120 sqmm supplied in wooden drum @ 1000 m
 150 sqmm and above will be supplied in wooden drum on available length
 Length Tolerance per drum $\pm 1.5\%$

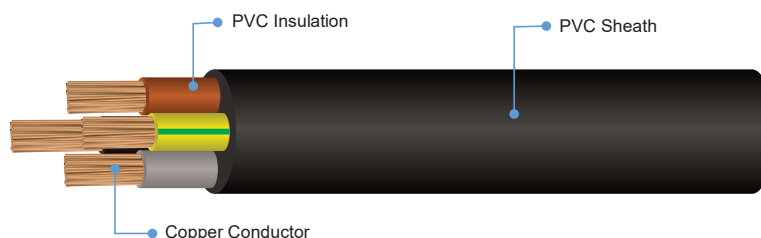
Construction Data

Nom.Cross Sect.	mm ²	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
Overall diameter (Approx.)	mm	8.4	9.9	11.2	12.7	15.9	19.7	24.4	28.5	32.8	37.1	42.3	45.3	49.2	56.5	61.3	68.0
Cable Weight (Approx.)	kg/km	104	150	204	275	445	663	1,008	1,369	1,896	2,489	3,264	3,970	4,712	5,971	7,473	9,046

Electrical Data

Conductor		Current-Carrying Capacity at 30°C in air Max.	Short circuit current at 1 sec Max.
Nom. Cross Sect.	DC Resistance at 20°C Max.		
(mm ²)	(Ω /km)	(A)	(kA)
1.5	13.3	15	0.17
2.5	7.98	20	0.29
4	4.95	26	0.46
6	3.30	33	0.69
10	1.91	45	1.15
16	1.21	61	1.84
25	0.780	80	2.88
35	0.554	98	4.03
50	0.386	122	5.75
70	0.272	152	8.05
95	0.206	175	10.93
120	0.161	198	13.80
150	0.129	221	17.25
185	0.106	243	21.28
240	0.0801	280	27.60
300	0.0641	313	34.50

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NYYYHY 4 x (1.5 - 300) mm²
Cu / PVC / PVC-f
(Flexible Copper Conductor, PVC Insulated, PVC Sheathed)
Standard Specification : IEC 60227

APPLICATION :

Power cord or internal wiring with medium mechanical stress for electrical equipment, machineries, luminaries and other portable appliances in dry indoor premises.

Special Features on Request

- Flame Retardant Non Category
- Heat Resistance
- Oil Resistance
- UV Resistance
- Anti Termite
- Anti Rodent

Note :
Standard Packing

1.5 - 95 sqmm supplied in wooden drum @ 1000 m
 120 sqmm and above will be supplied in wooden drum on available length
 Length Tolerance per drum $\pm 1.5\%$

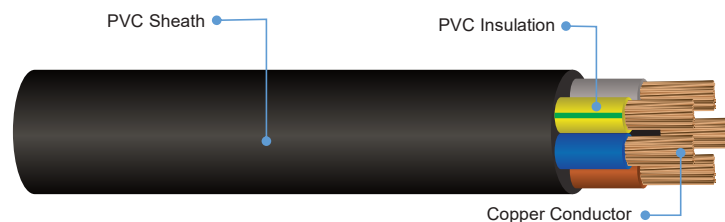
Construction Data

Nom.Cross Sect.	mm ²	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
Overall diameter (Approx.)	mm	9.3	11.0	12.4	14.0	17.8	21.8	27.2	31.5	34.0	40.9	46.7	50.0	54.4	62.6	67.9	75.4
Cable Weight (Approx.)	kg/km	132	192	262	353	583	853	1,312	1,761	2,430	3,210	4,227	5,158	6,136	7,792	9,779	11,856

Electrical Data

Conductor		Current-Carrying Capacity at 30°C in air Max.	Short circuit current at 1 sec Max.
Nom. Cross Sect.	DC Resistance at 20°C Max.		
(mm ²)	(Ω /km)	(A)	(kA)
1.5	13.3	15	0.17
2.5	7.98	20	0.29
4	4.95	26	0.46
6	3.30	33	0.69
10	1.91	45	1.15
16	1.21	61	1.84
25	0.780	80	2.88
35	0.554	98	4.03
50	0.386	122	5.75
70	0.272	152	8.05
95	0.206	175	10.93
120	0.161	198	13.80
150	0.129	221	17.25
185	0.106	243	21.28
240	0.0801	280	27.60
300	0.0641	313	34.50

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NYYYHY 5 x (1.5 - 50) mm²
Cu / PVC / PVC-f
(Flexible Copper Conductor, PVC Insulated, PVC Sheathed)
Standard Specification : IEC 60227

APPLICATION :

Power cord or internal wiring with medium mechanical stress for electrical equipment, machineries, luminaries and other portable appliances in dry indoor premises.

Special Features on Request

- Flame Retardant Non Category
- Heat Resistance
- Oil Resistance
- UV Resistance
- Anti Termite
- Anti Rodent

Note :
Standard Packing

1.5 - 50 sqmm supplied in wooden drum @ 1000 m
Length Tolerance per drum $\pm 1.5\%$

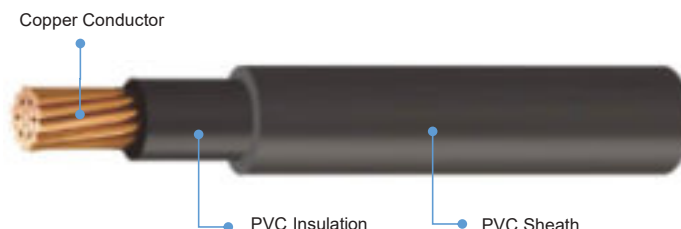
Construction Data

Nom.Cross Sect.	mm ²	1.5	2.5	4	6	10	16	25	35	50
Overall diameter (Approx.)	mm	10.2	12.2	13.8	15.6	19.7	24.4	30.3	34.6	39.7
Cable Weight (Approx.)	kg/km	158	235	322	435	716	1061	1626	2144	2973

Electrical Data

Conductor		Current-Carrying Capacity at 30°C in air Max.	Short circuit current at 1 sec Max.
Nom. Cross Sect.	DC Resistance at 20°C Max.		
(mm ²)	(Ω /km)	(A)	(kA)
1.5	13.3	12	0.17
2.5	7.98	17	0.29
4	4.95	23	0.46
6	3.30	30	0.69
10	1.91	41	1.15
16	1.21	54	1.84
25	0.780	71	2.88
35	0.554	88	4.03
50	0.386	109	5.75

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NYN 1 x (1.5 - 630) mm²
Cu / PVC / PVC
(Copper Conductor, PVC Insulated, PVC Sheathed)
Standard Specification : SNI IEC 60502-1, IEC 60502-1, SPLN D3.10-2 : 2014

APPLICATION :

Power cable : Indoors, cable trunking, outdoors and buried in the ground, for power stations, industry and switchgear as well as for urban supply networks, if mechanical damage is unlikely.

Special Features on Request

- Flame Retardant Non Category
- Flame Retardant Cat. A, B, C
- Heat Resistance
- Oil Resistance
- UV Resistance
- Anti Termite
- Anti Rodent

Note :
Conductor Shaped

1.5 - 10 sqmm supplied in solid (re) or round stranded (rm)

conductor shape

16 sqmm supplied in round stranded (rm) conductor shape

25 - 630 sqmm supplied in round stranded (rm) or compacted circular stranded (cm) conductor shape

Standard Packing

1.5 - 10 sqmm supplied in coil @ 100 m

16 - 240 sqmm supplied in wooden drum @ 1000 m

300 sqmm and above will be supplied in wooden drum on available length

Length Tolerance per drum $\pm$ 1.5%

Minimum Bending radius fixed installation

Single core : $8 \times D$

D is overall diameter of cable

Construction Data

Nom. Cross Sect.	mm ²	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240	300	400	500	630
Overall diameter (Approx.)	mm	5.6	7.0	7.5	8.0	9.0	10.0	11.5	13.0	14.5	16.5	19.0	20.5	22.5	25.0	28.0	31.0	34.5	38.5	40.5
Bending radius	mm	45	56	60	64	72	80	92	104	116	132	152	164	180	200	224	248	276	308	324
Cable Weight (Approx.)	kg/km	53	67	93	117	165	227	343	441	597	810	1077	1324	1602	2018	2633	3215	4082	5207	6704

Electrical Data

Conductor			Current-Carrying Capacity at 30°C				Inductance		Short circuit current at 1 sec Max.
Nom. Cross Sect.	DC Resistance at 20°C Max.	AC Resistance at 70°C Max.					Trefoil formation 	Flat formation 	
			in air Max.	in ground Max.	in air Max.	in ground Max.			
(mm²)	(Ω/km)	(Ω/km)	(A)	(A)	(A)	(A)	(mH/km)	(mH/km)	(kA)
1.5	12.1	14.5	21	27	25	33	0.455	0.501	0.17
2.5	7.41	8.87	27	35	46	45	0.421	0.467	0.29
4	4.61	5.52	37	46	58	58	0.402	0.448	0.46
6	3.08	3.69	46	57	48	74	0.377	0.424	0.69
10	1.83	2.19	64	76	80	98	0.347	0.393	1.15
16	1.15	1.38	84	98	100	107	0.323	0.369	1.84
25	0.727	0.870	114	127	135	138	0.309	0.355	2.88
35	0.524	0.627	140	152	170	185	0.295	0.341	4.03
50	0.387	0.464	172	180	205	196	0.288	0.334	5.75
70	0.268	0.321	218	221	260	240	0.274	0.320	8.05
95	0.193	0.232	270	264	320	289	0.270	0.316	10.93
120	0.153	0.184	315	300	375	329	0.262	0.308	13.80
150	0.124	0.150	362	336	430	374	0.261	0.308	17.25
185	0.0991	0.121	420	379	490	418	0.260	0.306	21.28
240	0.0754	0.0930	503	439	590	481	0.256	0.302	27.60
300	0.0601	0.0754	580	494	680	552	0.254	0.300	34.50
400	0.047	0.0607	674	558	825	632	0.251	0.297	41.20
500	0.0366	0.0494	781	629	960	730	0.248	0.294	51.50

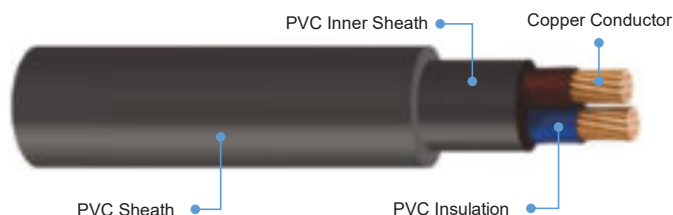
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NYN 2 x (1.5 - 300) mm²

Cu / PVC / PVC

(Copper Conductor, PVC Insulated, PVC Sheathed)

Standard Specification : SNI IEC 60502-1, IEC 60502-1, SPLN D3.10-2 : 2014



APPLICATION :

Power cable : Indoors, cable trunking, outdoors and buried in the ground, for power stations, industry and switchgear as well as for urban supply networks, if mechanical damage is unlikely.

Special Features on Request

- Flame Retardant Non Category
- Flame Retardant Cat. A, B, C
- Heat Resistance
- Oil Resistance
- UV Resistance
- Anti Termite
- Anti Rodent

Note :

Conductor Shaped

1.5 - 10 sqmm supplied in solid (re) or round stranded (rm) conductor shape

16 sqmm supplied in round stranded (rm) conductor shape

25 - 300 sqmm supplied in round stranded (rm) or compacted circular stranded (cm) conductor shape

Standard Packing

1.5 - 10 sqmm supplied in coil @ 100 m

16 - 240 sqmm supplied in wooden drum @ 1000 m

185 sqmm and above will be supplied in wooden drum on available length

Length Tolerance per drum $\pm 1.5\%$

Minimum Bending radius fixed installation

Multi core : 8 x D

D is overall diameter of cable

Construction Data

Nom. Cross Sect.	mm ²	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
Overall diameter (Approx.)	mm	11.7	13.5	15.0	16.0	17.5	20.0	22.5	24.5	28.0	31.5	36.0	39.5	43.5	48.0	54.0	59.5
Bending radius	mm	94	108	120	128	140	160	180	196	224	252	288	316	348	384	432	476
Cable Weight (Approx.)	kg/km	198	241	328	397	535	709	1000	1272	1534	2063	2783	3367	4109	5121	6573	8120

Electrical Data

Nom. Cross Sect.	Conductor		Current-Carrying Capacity at 30°C		Inductance	Short circuit current at 1 sec Max.
	DC Resistance at 20°C Max.	AC Resistance at 70°C Max.	in air Max.	in ground Max.		
(mm ²)	(Ω /km)	(Ω /km)	(A)	(A)	(mH/km)	(kA)
1.5	12.1	14.5	21	27	0.329	0.17
2.5	7.41	8.87	29	36	0.306	0.29
4	4.61	5.52	38	47	0.305	0.46
6	3.08	3.69	48	59	0.289	0.69
10	1.83	2.19	66	78	0.270	1.15
16	1.15	1.38	90	103	0.256	1.84
25	0.727	0.870	121	135	0.257	2.88
35	0.524	0.627	151	161	0.248	4.03
50	0.387	0.464	181	188	0.248	5.75
70	0.268	0.321	231	231	0.239	8.05
95	0.193	0.232	276	281	0.238	10.93
120	0.153	0.184	322	322	0.233	13.80
150	0.124	0.150	377	357	0.233	17.25
185	0.0991	0.121	432	411	0.234	21.28
240	0.0754	0.0930	513	474	0.232	27.60
300	0.0601	0.0754	593	528	0.231	34.50

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NYY 3 x (1.5 - 300) mm²
Cu / PVC / PVC
(Copper Conductor, PVC Insulated, PVC Sheathed)
Standard Specification : SNI IEC 60502-1, IEC 60502-1, SPLN D3.10-2 : 2014

APPLICATION :

Power cable : Indoors, cable trunking, outdoors and buried in the ground, for power stations, industry and switchgear as well as for urban supply networks, if mechanical damage is unlikely.

Special Features on Request

- Flame Retardant Non Category
- Flame Retardant Cat. A, B, C
- Heat Resistance
- Oil Resistance
- UV Resistance
- Anti Termite
- Anti Rodent

Note :
Conductor Shaped

1.5 - 10 sqmm supplied in solid (re) or round stranded (rm)

conductor shape

16 sqmm supplied in round stranded (rm) conductor shape

25 - 300 sqmm supplied in round stranded (rm) or compacted circular

stranded (cm) conductor shape

50 - 300 sqmm supplied sector shaped stranded (sm) conductor

Standard Packing

1.5 - 120 sqmm supplied in wooden drum @ 1000 m

150 sqmm and above will be supplied in wooden drum on available D is overall diameter of cable

length

Length Tolerance per drum $\pm 1.5\%$

Minimum Bending radius fixed installation

Multi core : $8 \times D$

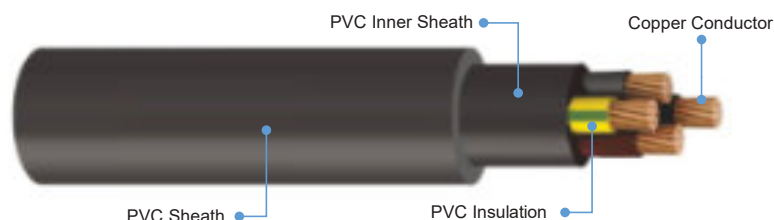
Construction Data

Nom.Cross Sect.	mm ²	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
Overall diameter (Approx.)	mm	12.5	14.0	15.5	16.5	18.5	21.0	23.5	26.0	29.5	34.0	38.2	42.0	46.5	51.0	58.0	64.0
Bending radius	mm	100	112	124	132	148	168	188	208	236	272	306	336	372	408	464	512
Cable Weight (Approx.)	kg/km	223	276	381	468	645	870	1247	1605	1854	2553	3423	4147	5109	6322	8205	10104

Electrical Data

Nom. Cross Sect.	Conductor		Current-Carrying Capacity at 30°C		Inductance	Short circuit current at 1 sec Max.
	DC Resistance at 20°C Max.	AC Resistance at 70°C Max.	in air Max.	in ground Max.		
(mm ²)	(Ω /km)	(Ω /km)	(A)	(A)	(mH/km)	(kA)
1.5	12.1	14.5	19	24	0.329	0.17
2.5	7.41	8.87	26	32	0.306	0.29
4	4.61	5.52	34	41	0.305	0.46
6	3.08	3.69	44	52	0.289	0.69
10	1.83	2.19	60	69	0.270	1.15
16	1.15	1.38	80	89	0.256	1.84
25	0.727	0.870	106	116	0.257	2.88
35	0.524	0.627	130	138	0.248	4.03
50	0.387	0.464	163	169	0.248	5.75
70	0.268	0.321	204	207	0.239	8.05
95	0.193	0.232	251	248	0.238	10.93
120	0.153	0.184	290	285	0.233	13.80
150	0.124	0.150	332	317	0.233	17.25
185	0.0991	0.121	383	358	0.234	21.28
240	0.0754	0.0930	453	415	0.232	27.60
300	0.0601	0.0754	520	466	0.231	34.50

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NYN 4 x (1.5 - 300) mm²
Cu / PVC / PVC
(Copper Conductor, PVC Insulated, PVC Sheathed)
Standard Specification : SNI IEC 60502-1, IEC 60502-1, SPLN D3.10-2 : 2014

APPLICATION :

Power cable : Indoors, cable trunking, outdoors and buried in the ground, for power stations, industry and switchgear as well as for urban supply networks, if mechanical damage is unlikely.

Special Features on Request

- Flame Retardant Non Category
- Flame Retardant Cat. A, B, C
- Heat Resistance
- Oil Resistance
- UV Resistance
- Anti Termite
- Anti Rodent

Note :
Conductor Shaped

1.5 - 10 sqmm supplied in solid (re) or round stranded (rm) conductor shape

16 sqmm supplied in round stranded (rm) conductor shape
25 - 300 sqmm supplied in round stranded (rm) or compacted circular stranded (cm) conductor shape

50 - 300 sqmm supplied sector shaped stranded (sm) conductor

Standard Packing

1.5 - 95 sqmm supplied in wooden drum @ 1000 m
120 sqmm and above will be supplied in wooden drum on available length
Length Tolerance per drum $\pm 1.5\%$

Minimum Bending radius fixed installation

Multi core : 8 x D

D is overall diameter of cable

Construction Data

Nom. Cross Sect.	mm ²	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
Overall diameter (Approx.)	mm	13.5	15.0	16.5	17.8	20.5	22.5	26.0	28.5	33.0	37.5	42.5	47.0	52.0	57.0	64.2	70.5
Bending radius	mm	108	120	132	142	164	180	208	228	264	300	340	376	416	456	514	564
Cable Weight (Approx.)	kg/km	257	322	451	560	790	1082	1557	2016	2463	3330	4486	5497	6779	8382	10805	13310

Electrical Data

Nom. Cross Sect.	Conductor		Current-Carrying Capacity at 30°C		Inductance	Short circuit current at 1 sec Max.
	DC Resistance at 20°C Max.	AC Resistance at 70°C Max.	in air Max.	in ground Max.		
(mm ²)	(Ω /km)	(Ω /km)	(A)	(A)	(mH/km)	(kA)
1.5	12.1	14.5	22	27	0.329	0.17
2.5	7.41	8.87	29	45	0.306	0.29
4	4.61	5.52	39	46	0.305	0.46
6	3.08	3.69	50	57	0.289	0.69
10	1.83	2.19	80	77	0.270	1.15
16	1.15	1.38	90	99	0.256	1.84
25	0.727	0.870	122	129	0.257	2.88
35	0.524	0.627	150	155	0.248	4.03
50	0.387	0.464	174	174	0.248	5.75
70	0.268	0.321	216	213	0.239	8.05
95	0.193	0.232	267	256	0.238	10.93
120	0.153	0.184	310	290	0.233	13.80
150	0.124	0.150	359	329	0.233	17.25
185	0.0991	0.121	407	368	0.234	21.28
240	0.0754	0.0930	484	427	0.232	27.60
300	0.0601	0.0754	555	481	0.231	34.50

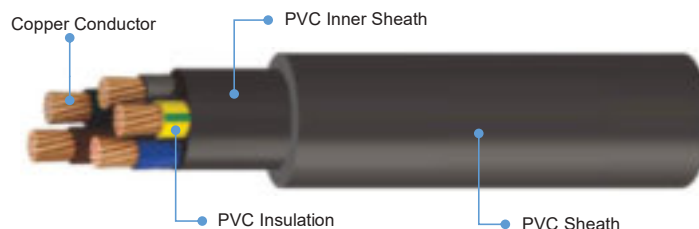
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NYY 5 x (1.5 - 50) mm²

Cu / PVC / PVC

(Copper Conductor, PVC Insulated, PVC Sheathed)

Standard Specification : SNI IEC 60502-1, IEC 60502-1, SPLN D3.10-2 : 2014



APPLICATION :

Power cable : Indoors, cable trunking, outdoors and buried in the ground, for power stations, industry and switchgear as well as for urban supply networks, if mechanical damage is unlikely.

Special Features on Request

- Flame Retardant Non Category
- Flame Retardant Cat. A, B, C
- Heat Resistance
- Oil Resistance
- UV Resistance
- Anti Termite
- Anti Rodent

Note :

Conductor Shaped

1.5 - 10 sqmm supplied in solid (re) or round stranded (rm) conductor shape
 16 sqmm supplied in round stranded (rm) conductor shape
 25 - 50 sqmm supplied in round stranded (rm) or compacted circular stranded (cm) conductor shape

Standard Packing

1.5 - 50 sqmm supplied in wooden drum @ 1000 m
 Length Tolerance per drum $\pm 1.5\%$

Minimum Bending radius fixed installation

Multi core : $8 \times D$
 D is overall diameter of cable

Construction Data

Nom.Cross Sect.	mm ²	1.5	2.5	4	6	10	16	25	35	50
Overall diameter (Approx.)	mm	14.5	16.5	18.0	19.3	22.0	24.5	28.0	31.0	36.5
Bending radius	mm	116	165	144	154	176	196	280	248	292
Cable Weight (Approx.)	kg/km	300	380	537	672	948	1307	1892	2475	3157

Electrical Data

Nom. Cross Sect.	Conductor		Current-Carrying Capacity at 30°C		Inductance	Short circuit current at 1 sec Max.
	DC Resistance at 20°C Max.	AC Resistance at 70°C Max.	in air Max.	in ground Max.		
(mm ²)	(Ω /km)	(Ω /km)	(A)	(A)	(mH/km)	(kA)
1.5	12.1	14.5	18	24	0.329	0.17
2.5	7.41	8.87	25	32	0.306	0.29
4	4.61	5.52	34	41	0.305	0.46
6	3.08	3.69	44	52	0.289	0.69
10	1.83	2.19	60	69	0.270	1.15
16	1.15	1.38	80	89	0.256	1.84
25	0.727	0.870	105	116	0.257	2.88
35	0.524	0.627	130	138	0.248	4.03
50	0.387	0.464	160	165	0.248	5.75

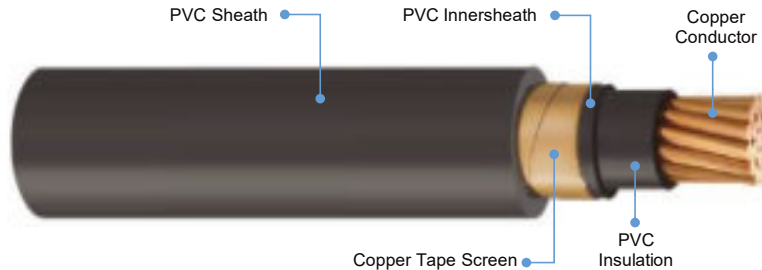
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NYSY 1 x (1.5 - 630) mm²

Cu / PVC / CTS / PVC

(Copper Conductor, PVC Insulated, Copper Tape Screen, PVC Sheathed)

Standard Specification : SNI IEC 60502-1



APPLICATION :

For power plants and switchgear as well as for installation of sub-station; for installation indoors in confined spaces and cable channels because of small bending radius. As buried cable, because of its light weight preferred in where installation is difficult.

Special Features on Request

- Flame Retardant Non Category
- Flame Retardant Cat. A, B, C
- Heat Resistance
- Oil Resistance
- UV Resistance
- Anti Termite
- Anti Rodent

Note :

Conductor Shaped

1.5 - 10 sqmm supplied in solid (re) or round stranded (rm)

conductor shape

16 sqmm supplied in round stranded (rm) conductor shape

25 - 630 sqmm supplied in round stranded (rm) or compacted circular stranded (cm) conductor shape

Standard Packing

1.5 - 240 sqmm supplied in wooden drum @ 1000 m

300 sqmm and above will be supplied in wooden drum on available length

Length Tolerance per drum ± 1.5%

Minimum Bending radius fixed installation

Single core : 10 x D

D is overall diameter of cable

Construction Data

Nom.Cross Sect.	mm ²	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240	300	400	500	630
Overall diameter (Approx.)	mm	9.0	9.5	10.0	10.5	11.5	12.4	14.0	15.0	16.5	18.0	20.0	21.5	23.5	25.5	28.5	31.0	34.7	38.5	42.5
Bending radius	mm	90	95	100	105	115	124	140	150	165	180	200	215	235	255	285	310	347	385	425
Cable Weight (Approx.)	kg/km	109	127	161	190	245	316	446	555	726	945	1230	1479	1772	2194	2818	3418	4343	5497	7026

Electrical Data

Conductor			Current-Carrying Capacity at 30°C				Inductance		Short circuit current at 1 sec Max.
Nom. Cross Sect.	DC Resistance at 20°C Max.	AC Resistance at 70°C Max.					Trefoil formation 	Flat formation 	
			in air Max.	in ground Max.	in air Max.	in ground Max.			
(mm²)	(Ω/km)	(Ω/km)	(A)	(A)	(A)	(A)	(mH/km)	(mH/km)	(kA)
1.5	12.1	14.5	23	26	23	33	0.527	0.574	0.17
2.5	7.41	8.87	30	35	31	44	0.496	0.542	0.29
4	4.61	5.52	40	45	45	57	0.462	0.509	0.46
6	3.08	3.69	50	56	57	73	0.435	0.481	0.69
10	1.83	2.19	68	75	79	97	0.400	0.446	1.15
16	1.15	1.38	89	97	99	106	0.370	0.416	1.84
25	0.727	0.870	120	126	134	137	0.357	0.403	2.88
35	0.524	0.627	147	151	168	163	0.340	0.386	4.03
50	0.387	0.464	179	180	203	194	0.328	0.375	5.75
70	0.268	0.321	225	220	257	238	0.310	0.356	8.05
95	0.193	0.232	277	263	317	286	0.301	0.347	10.93
120	0.153	0.184	327	300	371	326	0.291	0.337	13.80
150	0.124	0.150	376	337	420	370	0.286	0.332	17.25
185	0.0991	0.121	436	381	485	414	0.282	0.328	21.28
240	0.0754	0.093	525	441	584	476	0.274	0.321	27.60
300	0.0601	0.0754	604	495	673	546	0.271	0.317	34.50
400	0.047	0.0607	733	573	817	626	0.269	0.315	41.20
500	0.0366	0.0494	851	652	950	723	0.264	0.310	51.50
630	0.0283	0.0390	895	702	914	713	0.256	0.303	41.20

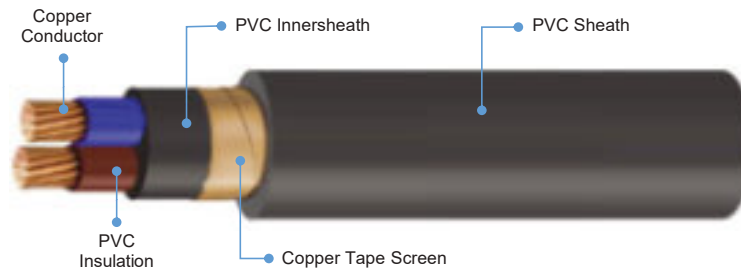
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NYSY 2 x (1.5 - 300) mm²

Cu / PVC / CTS / PVC

(Copper Conductor, PVC Insulated, Copper Tape Screen, PVC Sheathed)

Standard Specification : SNI IEC 60502-1



APPLICATION :

For power plants and switchgear as well as for installation of sub-station; for installation indoors in confined spaces and cable channels because of small bending radius. As buried cable, because of its light weight preferred in where installation is difficult.

Special Features on Request

- Flame Retardant Non Category
- Flame Retardant Cat. A, B, C
- Heat Resistance
- Oil Resistance
- UV Resistance
- Anti Termite
- Anti Rodent

Note :

Conductor Shaped

1.5 - 10 sqmm supplied in solid (re) or round stranded (rm) conductor shape
16 sqmm supplied in round stranded (rm) conductor shape
25 - 300 sqmm supplied in round stranded (rm) or compacted circular stranded (cm) conductor shape

Standard Packing

1.5 - 150 sqmm supplied in wooden drum @ 1000 m
185 sqmm and above will be supplied in wooden drum on available length
Length Tolerance per drum $\pm 1.5\%$

Minimum Bending radius fixed installation

Multi cores : $10 \times D$
D is overall diameter of cable

Construction Data

Nom. Cross Sect.	mm ²	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
Overall diameter (Approx.)	mm	12.0	13.5	14.5	15.5	17.5	19.5	22.0	24.0	27.5	31.5	36.0	39.0	43.5	47.5	53.5	59.5
Bending radius	mm	120	135	145	155	175	195	220	240	275	315	360	390	435	475	535	595
Cable Weight (Approx.)	kg/km	205	247	334	403	540	712	1000	1268	1563	2096	2818	3405	4171	5163	6619	8193

Electrical Data

Nom. Cross Sect.	Conductor		Current-Carrying Capacity at 30°C		Inductance	Short circuit current at 1 sec Max.
	DC Resistance at 20°C Max.	AC Resistance at 70°C Max.	in air Max.	in ground Max.		
(mm ²)	(Ω /km)	(Ω /km)	(A)	(A)	(mH/km)	(kA)
1.5	12.1	14.5	23	28	0.329	0.17
2.5	7.41	8.87	31	37	0.306	0.29
4	4.61	5.52	41	48	0.305	0.46
6	3.08	3.69	52	60	0.289	0.69
10	1.83	2.19	71	81	0.270	1.15
16	1.15	1.38	94	106	0.256	1.84
25	0.727	0.870	124	136	0.257	2.88
35	0.524	0.627	153	164	0.248	4.03
50	0.387	0.464	184	194	0.248	5.75
70	0.268	0.321	232	239	0.239	8.05
95	0.193	0.232	283	284	0.238	10.93
120	0.153	0.184	329	325	0.233	13.80
150	0.124	0.150	375	364	0.233	17.25
185	0.0991	0.121	428	409	0.234	21.28
240	0.0754	0.0930	505	472	0.232	27.60
300	0.0601	0.0754	584	530	0.231	34.50

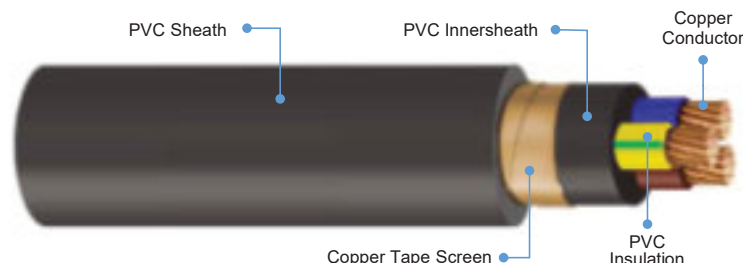
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NYSY 3 x (1.5 - 300) mm²

Cu / PVC / CTS / PVC

(Copper Conductor, PVC Insulated, Copper Tape Screen, PVC Sheathed)

Standard Specification : SNI IEC 60502-1



APPLICATION :

For power plants and switchgear as well as for installation of sub-station; for installation indoors in confined spaces and cable channels because of small bending radius. As buried cable, because of its light weight preferred in where installation is difficult.

Special Features on Request

- Flame Retardant Non Category
- Flame Retardant Cat. A, B, C
- Heat Resistance
- Oil Resistance
- UV Resistance
- Anti Termite
- Anti Rodent

Note :

Conductor Shaped

1.5 - 10 sqmm supplied in solid (re) or round stranded (rm)
 conductor shape
 16 sqmm supplied in round stranded (rm) conductor shape
 25 - 300 sqmm supplied in round stranded (rm) or compacted
 circular stranded (cm) conductor shape
 50 - 300 sqmm supplied sector shaped stranded (sm) conductor

Standard Packing

1.5 - 120 sqmm supplied in wooden drum @ 1000 m
 150 sqmm and above will be supplied in wooden drum
 on available length
 Length Tolerance per drum $\pm 1.5\%$

Minimum Bending radius fixed installation

Multi cores : 10 x D
 D is overall diameter of cable

Construction Data

Nom.Cross Sect.	mm ²	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
Overall diameter (Approx.)	mm	12.5	14.0	15.5	16.5	18.5	20.5	23.5	25.5	29.5	34.0	38.5	42.0	46.5	51.0	58.0	63.5
Bending radius	mm	125	140	155	165	185	205	235	255	295	340	385	420	465	510	580	635
Cable Weight (Approx.)	kg/km	231	283	390	477	653	878	1252	1608	1898	2584	3458	4184	5167	6363	8246	10149

Electrical Data

Nom. Cross Sect.	Conductor		Current-Carrying Capacity at 30°C		Inductance	Short circuit current at 1 sec Max.
	DC Resistance at 20°C Max.	AC Resistance at 70°C Max.	in air Max.	in ground Max.		
(mm ²)	(Ω /km)	(Ω /km)	(A)	(A)	(mH/km)	(kA)
1.5	12.1	14.5	20	24	0.329	0.17
2.5	7.41	8.87	26	32	0.306	0.29
4	4.61	5.52	35	41	0.305	0.46
6	3.08	3.69	44	51	0.289	0.69
10	1.83	2.19	60	68	0.270	1.15
16	1.15	1.38	80	89	0.256	1.84
25	0.727	0.870	107	115	0.257	2.88
35	0.524	0.627	131	139	0.248	4.03
50	0.387	0.464	164	170	0.248	5.75
70	0.268	0.321	205	208	0.239	8.05
95	0.193	0.232	252	249	0.238	10.93
120	0.153	0.184	292	284	0.233	13.80
150	0.124	0.150	334	318	0.233	17.25
185	0.0991	0.121	385	359	0.234	21.28
240	0.0754	0.0930	454	415	0.232	27.60
300	0.0601	0.0754	521	466	0.231	34.50

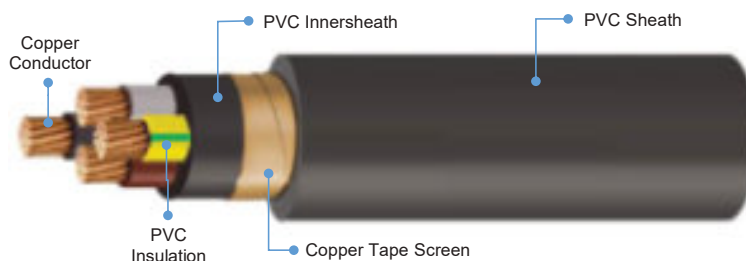
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NYSY 4 x (1.5 - 300) mm²

Cu / PVC / CTS / PVC

(Copper Conductor, PVC Insulated, Copper Tape Screen, PVC Sheathed)

Standard Specification : SNI IEC 60502-1



APPLICATION :

For power plants and switchgear as well as for installation of sub-station; for installation indoors in confined spaces and cable channels because of small bending radius. As buried cable, because of its light weight preferred in where installation is difficult.

Special Features on Request

- Flame Retardant Non Category
- Flame Retardant Cat. A, B, C
- Heat Resistance
- Oil Resistance
- UV Resistance
- Anti Termite
- Anti Rodent

Note :

Conductor Shaped

1.5 - 10 sqmm supplied in solid (re) or round stranded (rm) conductor shape
16 sqmm supplied in round stranded (rm) conductor shape
25 - 300 sqmm supplied in round stranded (rm) or compacted circular stranded (cm) conductor shape
50 - 300 sqmm supplied sector shaped stranded (sm) conductor

Standard Packing

1.5 - 95 sqmm supplied in wooden drum @ 1000 m
120 sqmm and above will be supplied in wooden drum on available length
Length Tolerance per drum $\pm 1.5\%$

Minimum Bending radius fixed installation

Multi cores : 10 x D
D is overall diameter of cable

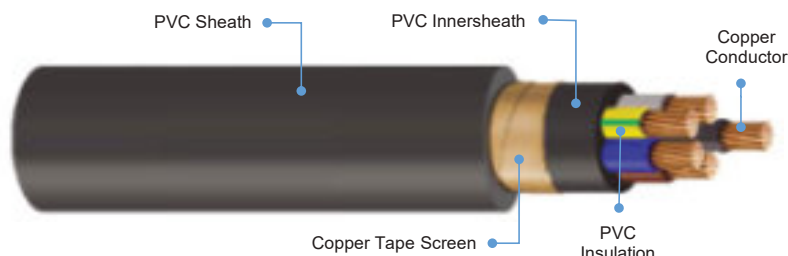
Construction Data

Nom.Cross Sect.	mm ²	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
Overall diameter (Approx.)	mm	13.5	15.0	16.5	18.0	20.0	22.5	25.5	28.0	33.0	37.5	42.5	47.0	51.5	57.0	64.0	70.5
Bending radius	mm	135	150	165	180	200	225	255	280	330	375	425	470	515	570	640	705
Cable Weight (Approx.)	kg/km	265	331	460	570	800	1092	1566	2024	2511	3365	4526	5558	6824	8425	10853	13362

Electrical Data

Nom. Cross Sect.	Conductor		Current-Carrying Capacity at 30°C		Inductance	Short circuit current at 1 sec Max.
	DC Resistance at 20°C Max.	AC Resistance at 70°C Max.	in air Max.	in ground Max.		
(mm ²)	(Ω /km)	(Ω /km)	(A)	(A)	(mH/km)	(kA)
1.5	12.1	14.5	22	27	0.329	0.17
2.5	7.41	8.87	29	36	0.306	0.29
4	4.61	5.52	40	47	0.305	0.46
6	3.08	3.69	50	58	0.289	0.69
10	1.83	2.19	69	78	0.270	1.15
16	1.15	1.38	91	101	0.256	1.84
25	0.727	0.870	123	131	0.257	2.88
35	0.524	0.627	151	156	0.248	4.03
50	0.387	0.464	175	175	0.248	5.75
70	0.268	0.321	218	214	0.239	8.05
95	0.193	0.232	269	257	0.238	10.93
120	0.153	0.184	312	291	0.233	13.80
150	0.124	0.150	361	330	0.233	17.25
185	0.0991	0.121	409	369	0.234	21.28
240	0.0754	0.0930	485	428	0.232	27.60
300	0.0601	0.0754	557	481	0.231	34.50

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NYSY 5 x (1.5 - 50) mm²
Cu / PVC / CTS / PVC
(Copper Conductor, PVC Insulated, Copper Tape Screen, PVC Sheathed)
Standard Specification : SNI IEC 60502-1

APPLICATION :

For power plants and switchgear as well as for installation of sub-station; for installation indoors in confined spaces and cable channels because of small bending radius. As buried cable, because of its light weight preferred in where installation is difficult.

Special Features on Request

- Flame Retardant Non Category
- Flame Retardant Cat. A, B, C
- Heat Resistance
- Oil Resistance
- UV Resistance
- Anti Termite
- Anti Rodent

Note :
Conductor Shaped

1.5 - 10 sqmm supplied in solid (re) or round stranded (rm)

conductor shape

16 sqmm supplied in round stranded (rm) conductor shape

25 - 50 sqmm supplied in round stranded (rm) or compacted circular stranded (cm) conductor shape

Standard Packing

1.5 - 50 sqmm supplied in wooden drum @ 1000 m

Length Tolerance per drum $\pm 1.5\%$

Minimum Bending radius fixed installation

Multi cores : $10 \times D$

D is overall diameter of cable

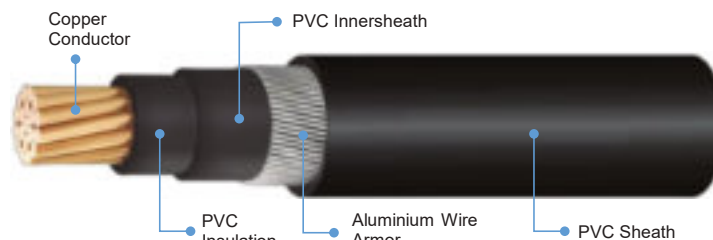
Construction Data

Nom.Cross Sect.	mm ²	1.5	2.5	4	6	10	16	25	35	50
Overall diameter (Approx.)	mm	14.0	16.0	18.0	19.5	21.5	24.5	28.0	31.0	36.5
Bending radius	mm	140	160	180	195	215	245	280	310	365
Cable Weight (Approx.)	kg/km	309	391	549	684	965	1319	1904	2485	3209

Electrical Data

Nom. Cross Sect.	Conductor		Current-Carrying Capacity at 30°C		Inductance	Short circuit current at 1 sec Max.
	DC Resistance at 20°C Max.	AC Resistance at 70°C Max.	in air Max.	in ground Max.		
(mm ²)	(Ω /km)	(Ω /km)	(A)	(A)	(mH/km)	(kA)
1.5	12.1	14.5	23	28	0.329	0.17
2.5	7.41	8.87	30	36	0.306	0.29
4	4.61	5.52	41	48	0.305	0.46
6	3.08	3.69	52	59	0.289	0.69
10	1.83	2.19	71	79	0.270	1.15
16	1.15	1.38	95	103	0.256	1.84
25	0.727	0.870	128	133	0.257	2.88
35	0.524	0.627	157	159	0.248	4.03
50	0.387	0.464	191	187	0.241	5.75

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NYR(AL)Y 1 x (10 - 630) mm²
Cu / PVC / AWA / PVC
(Copper Conductor, PVC Insulated, Aluminium Wire Armor, PVC Sheathed)
Standard Specification : SNI IEC 60502-1

APPLICATION :

For installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

Special Features on Request

- Flame Retardant Non Category
- Flame Retardant Cat. A, B, C
- Heat Resistance
- Oil Resistance
- UV Resistance
- Anti Termite
- Anti Rodent

Note :
Conductor Shaped

1.5 - 10 sqmm supplied in solid (re) or round stranded (rm) conductor shape
16 sqmm supplied in round stranded (rm) conductor shape
25 - 630 sqmm supplied in round stranded (rm) or compacted circular stranded (cm) conductor shape

Standard Packing

10 - 300 sqmm supplied in wooden drum @ 1000 m
400 sqmm and above will be supplied in wooden drum on available length
Length Tolerance per drum $\pm 1.5\%$

Minimum Bending radius fixed installation

Single core : $16 \times D$
D is overall diameter of cable

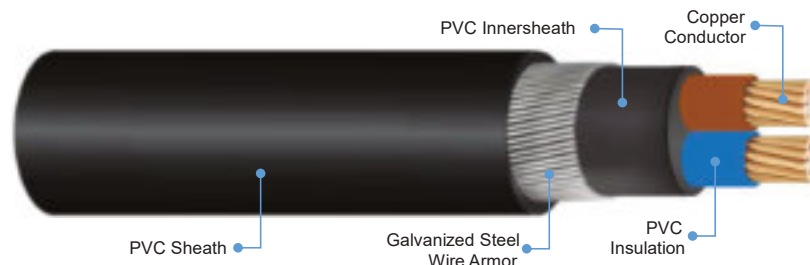
Construction Data

Nom.Cross Sect.	mm ²	10	16	25	35	50	70	95	120	150	185	240	300	400	500	630
Overall diameter (Approx.)	mm	14.0	15.0	16.5	17.5	19.0	21.0	23.0	25.0	26.5	28.5	31.5	35.0	39.0	43.0	47.0
Bending radius	mm	224	240	264	280	304	336	368	400	424	456	504	560	624	688	752
Cable Weight (Approx.)	kg/km	324	400	538	654	836	1069	1363	1660	1965	2403	3067	3776	4758	5961	7529

Electrical Data

Conductor			Current-Carrying Capacity at 30°C				Inductance		Short circuit current at 1 sec Max.
Nom. Cross Sect.	DC Resistance at 20°C Max.	AC Resistance at 70°C Max.					Trefoil formation 	Flat formation 	
			in air Max.	in ground Max.	in air Max.	in ground Max.			
(mm²)	(Ω/km)	(Ω/km)	(A)	(A)	(A)	(A)	(mH/km)	(mH/km)	(kA)
10	1.83	2.19	73	77	75	79	0.441	0.487	1.15
16	1.15	1.38	96	99	98	103	0.408	0.454	1.84
25	0.727	0.870	128	129	131	132	0.392	0.438	2.88
35	0.524	0.627	155	154	159	158	0.372	0.419	4.03
50	0.387	0.464	188	182	193	187	0.358	0.404	5.75
70	0.268	0.321	235	223	241	228	0.337	0.383	8.05
95	0.193	0.232	287	265	294	270	0.325	0.372	10.93
120	0.153	0.184	334	303	344	306	0.318	0.364	13.80
150	0.124	0.150	378	336	388	340	0.311	0.357	17.25
185	0.0991	0.121	433	377	445	380	0.305	0.351	21.28
240	0.0754	0.0930	510	431	514	432	0.297	0.343	27.60
300	0.0601	0.0754	591	493	623	493	0.296	0.342	34.50
400	0.047	0.0607	653	531	693	531	0.292	0.338	41.20
500	0.0366	0.0494	787	629	856	529	0.285	0.331	51.50
630	0.0283	0.0390	824	628	803	605	0.276	0.322	41.20

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NYRY 2 x (1.5 - 300) mm²
Cu / PVC / SWA / PVC
(Copper Conductor, PVC Insulated, Galvanized Steel Wire Armor, PVC Sheathed)
Standard Specification : SNI IEC 60502-1

APPLICATION :

For installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

Special Features on Request

- Flame Retardant Non Category
- Flame Retardant Cat. A, B, C
- Heat Resistance
- Oil Resistance
- UV Resistance
- Anti Termite
- Anti Rodent

Note :
Conductor Shaped

1.5 - 10 sqmm supplied in solid (re) or round stranded (rm) conductor shape

16 sqmm supplied in round stranded (rm) conductor shape

25 - 300 sqmm supplied in round stranded (rm) or compacted circular stranded (cm) conductor shape

Standard Packing

1.5 - 150 sqmm supplied in wooden drum @ 1000 m

185 sqmm and above will be supplied in wooden drum on available length

Length Tolerance per drum $\pm 1.5\%$
Minimum Bending radius fixed installation

Multi cores : 16 x D

D is overall diameter of cable

Construction Data

Nom. Cross Sect.	mm ²	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
Overall diameter (Approx.)	mm	13.5	15.0	16.5	18.0	20.0	22.0	25.5	27.5	31.0	35.5	40.0	43.5	48.5	53.5	59.5	65.0
Bending radius	mm	216	240	264	288	320	352	408	440	496	568	640	696	776	856	952	1040
Cable Weight (Approx.)	kg/km	345	401	513	697	869	1081	1563	1891	2290	3146	4032	4719	6034	7244	8938	10718

Electrical Data

Nom. Cross Sect.	Conductor		Current-Carrying Capacity at 30°C		Inductance	Short circuit current at 1 sec Max.
	DC Resistance at 20°C Max.	AC Resistance at 70°C Max.	in air Max.	in ground Max.		
(mm ²)	(Ω /km)	(Ω /km)	(A)	(A)	(mH/km)	(kA)
1.5	12.1	14.5	24	28	0.329	0.17
2.5	7.41	8.87	32	37	0.306	0.29
4	4.61	5.52	42	48	0.305	0.46
6	3.08	3.69	54	61	0.289	0.69
10	1.83	2.19	73	82	0.270	1.15
16	1.15	1.38	97	107	0.256	1.84
25	0.727	0.870	129	138	0.257	2.88
35	0.524	0.627	158	166	0.248	4.03
50	0.387	0.464	189	195	0.248	5.75
70	0.268	0.321	239	241	0.239	8.05
95	0.193	0.232	289	285	0.238	10.93
120	0.153	0.184	335	325	0.233	13.80
150	0.124	0.150	383	365	0.233	17.25
185	0.0991	0.121	435	408	0.234	21.28
240	0.0754	0.0930	509	468	0.232	27.60
300	0.0601	0.0754	584	523	0.231	34.50

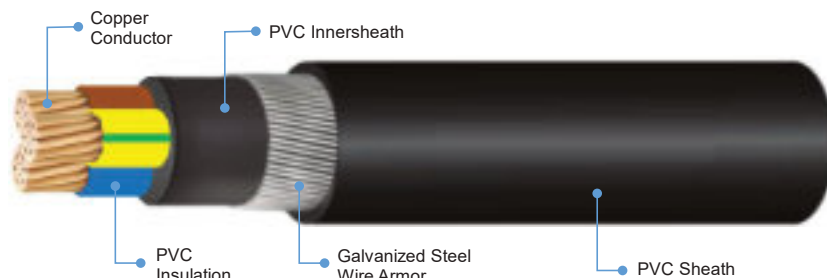
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NYRY 3 x (1.5 - 300) mm²

Cu / PVC / SWA / PVC

(Copper Conductor, PVC Insulated, Galvanized Steel Wire Armor, PVC Sheathed)

Standard Specification : SNI IEC 60502-1



APPLICATION :

For installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

Special Features on Request

- Flame Retardant Non Category
- Flame Retardant Cat. A, B, C
- Heat Resistance
- Oil Resistance
- UV Resistance
- Anti Termite
- Anti Rodent

Note :

Conductor Shaped

1.5 - 10 sqmm supplied in solid (re) or round stranded (rm)
conductor shape
16 sqmm supplied in round stranded (rm) conductor shape
25 - 300 sqmm supplied in round stranded (rm) or compacted
circular stranded (cm) conductor shape
50 - 300 sqmm supplied sector shaped stranded (sm) conductor

Standard Packing

1.5 - 95 sqmm supplied in wooden drum @ 1000 m
120 sqmm and above will be supplied in wooden drum
on available length
Length Tolerance per drum $\pm 1.5\%$

Minimum Bending radius fixed installation

Multi cores : 16 x D
D is overall diameter of cable

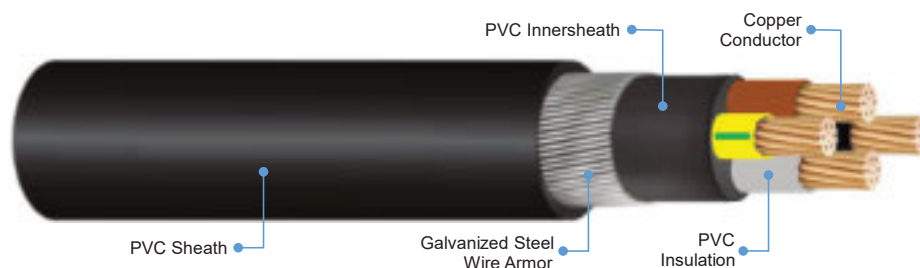
Construction Data

Nom.Cross Sect.	mm ²	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
Overall diameter (Approx.)	mm	14.0	15.5	17.5	19.0	21.0	23.0	26.5	28.5	33.0	38.0	42.5	46.0	52.0	56.5	63.5	69.0
Bending radius	mm	224	248	280	304	336	368	424	456	528	608	680	736	832	904	1016	1104
Cable Weight (Approx.)	kg/km	380	445	674	778	1005	1274	1861	2276	2641	3660	4655	5480	7031	8447	10566	12668

Electrical Data

Nom. Cross Sect.	Conductor		Current-Carrying Capacity at 30°C		Inductance	Short circuit current at 1 sec Max.
	DC Resistance at 20°C Max.	AC Resistance at 70°C Max.	in air Max.	in ground Max.		
(mm ²)	(Ω /km)	(Ω /km)	(A)	(A)	(mH/km)	(kA)
1.5	12.1	14.5	20	24	0.329	0.17
2.5	7.41	8.87	27	32	0.306	0.29
4	4.61	5.52	36	41	0.305	0.46
6	3.08	3.69	46	52	0.289	0.69
10	1.83	2.19	63	69	0.270	1.15
16	1.15	1.38	83	90	0.256	1.84
25	0.727	0.870	111	117	0.257	2.88
35	0.524	0.627	135	141	0.248	4.03
50	0.387	0.464	169	172	0.248	5.75
70	0.268	0.321	213	210	0.239	8.05
95	0.193	0.232	260	251	0.238	10.93
120	0.153	0.184	300	285	0.233	13.80
150	0.124	0.150	344	319	0.233	17.25
185	0.0991	0.121	393	359	0.234	21.28
240	0.0754	0.0930	459	411	0.232	27.60
300	0.0601	0.0754	595	460	0.231	34.50

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NYRY 4 x (1.5 - 300) mm²
Cu / PVC / SWA / PVC
(Copper Conductor, PVC Insulated, Galvanized Steel Wire Armor, PVC Sheathed)
Standard Specification : SNI IEC 60502-1

APPLICATION :

For installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

Special Features on Request

- Flame Retardant Non Category
- Flame Retardant Cat. A, B, C
- Heat Resistance
- Oil Resistance
- UV Resistance
- Anti Termite
- Anti Rodent

Note :
Conductor Shaped

- 1.5 - 10 sqmm supplied in solid (re) or round stranded (rm) conductor shape
- 16 sqmm supplied in round stranded (rm) conductor shape
- 25 - 300 sqmm supplied in round stranded (rm) or compacted circular stranded (cm) conductor shape
- 50 - 300 sqmm supplied sector shaped stranded (sm) conductor

Standard Packing

1.5 - 70 sqmm supplied in wooden drum @ 1000 m
95 sqmm and above will be supplied in wooden drum on available length
Length Tolerance per drum $\pm 1.5\%$

Minimum Bending radius fixed installation

Multi cores : 16 x D
D is overall diameter of cable

Construction Data

Nom.Cross Sect.	mm ²	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
Overall diameter (Approx.)	mm	15.0	16.5	19.0	20.0	22.5	25.5	28.5	31.5	37.0	41.5	48.0	52.0	57.0	62.5	69.5	76.0
Bending radius	mm	240	264	304	320	360	408	456	504	592	664	768	832	912	1000	1112	1216
Cable Weight (Approx.)	kg/km	422	506	762	898	1178	1655	2233	2765	3635	4586	6330	7538	9062	10822	13526	16313

Electrical Data

Nom. Cross Sect.	Conductor		Current-Carrying Capacity at 30°C		Inductance	Short circuit current at 1 sec Max.
	DC Resistance at 20°C Max.	AC Resistance at 70°C Max.	in air Max.	in ground Max.		
(mm ²)	(Ω /km)	(Ω /km)	(A)	(A)	(mH/km)	(kA)
1.5	12.1	14.5	23	28	0.329	0.17
2.5	7.41	8.87	31	36	0.306	0.29
4	4.61	5.52	42	48	0.305	0.46
6	3.08	3.69	53	59	0.289	0.69
10	1.83	2.19	72	79	0.270	1.15
16	1.15	1.38	96	103	0.256	1.84
25	0.727	0.870	129	133	0.257	2.88
35	0.524	0.627	157	158	0.248	4.03
50	0.387	0.464	181	177	0.248	5.75
70	0.268	0.321	225	216	0.239	8.05
95	0.193	0.232	278	259	0.238	10.93
120	0.153	0.184	320	293	0.233	13.80
150	0.124	0.150	368	330	0.233	17.25
185	0.0991	0.121	415	367	0.234	21.28
240	0.0754	0.0930	487	430	0.232	27.60
300	0.0601	0.0754	595	595	0.231	34.50

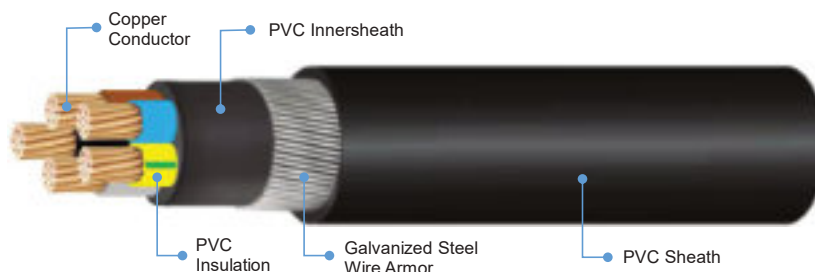
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NYRY 5 x (1.5 - 50) mm²

Cu / PVC / SWA / PVC

(Copper Conductor, PVC Insulated, Galvanized Steel Wire Armor, PVC Sheathed)

Standard Specification : SNI IEC 60502-1



APPLICATION :

For installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

Special Features on Request

- Flame Retardant Non Category
- Flame Retardant Cat. A, B, C
- Heat Resistance
- Oil Resistance
- UV Resistance
- Anti Termite
- Anti Rodent

Note :

Conductor Shaped

1.5 - 10 sqmm supplied in solid (re) or round stranded (rm) conductor shape

16 sqmm supplied in round stranded (rm) conductor shape

25 - 50 sqmm supplied in round stranded (rm) or compacted circular stranded (cm) conductor shape

Standard Packing

1.5 - 50 sqmm supplied in wooden drum @ 1000 m

Length Tolerance per drum $\pm 1.5\%$

Minimum Bending radius fixed installation

Multi cores : $16 \times D$

D is overall diameter of cable

Construction Data

Nom.Cross Sect.	mm ²	1.5	2.5	4	6	10	16	25	35	50
Overall diameter (Approx.)	mm	16.0	18.0	20.0	21.5	25.0	27.5	31.5	35.0	40.5
Bending radius	mm	256	288	320	344	400	440	504	560	648
Cable Weight (Approx.)	kg/km	479	577	877	1054	1513	1943	2646	3534	4432

Electrical Data

Nom. Cross Sect.	Conductor		Current-Carrying Capacity at 30°C		Inductance	Short circuit current at 1 sec Max.
	DC Resistance at 20°C Max.	AC Resistance at 70°C Max.	in air Max.	in ground Max.		
(mm ²)	(Ω /km)	(Ω /km)	(A)	(A)	(mH/km)	(kA)
1.5	12.1	14.5	24	28	0.329	0.17
2.5	7.41	8.87	32	37	0.306	0.29
4	4.61	5.52	43	49	0.305	0.46
6	3.08	3.69	55	60	0.289	0.69
10	1.83	2.19	75	80	0.270	1.15
16	1.15	1.38	99	105	0.256	1.84
25	0.727	0.870	133	134	0.257	2.88
35	0.524	0.627	164	161	0.248	4.03
50	0.387	0.464	198	189	0.241	5.75

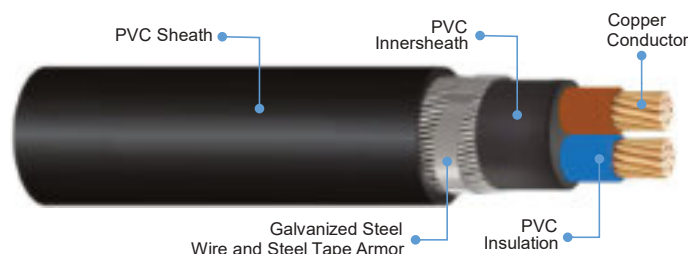
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NYRgBY 2 x (1.5 - 300) mm²

Cu / PVC / SWA / PVC

(Copper Conductor, PVC Insulated, Galvanized Steel Wire Armor, PVC Sheathed)

Standard Specification : SNI IEC 60502-1



APPLICATION :

For installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

Special Features on Request

- Flame Retardant Non Category
- Flame Retardant Cat. A, B, C
- Heat Resistance
- Oil Resistance
- UV Resistance
- Anti Termite
- Anti Rodent

Standard Packing

1.5 - 120 sqmm supplied in wooden drum @ 1000 m
185 sqmm and above will be supplied in wooden drum on available length
Length Tolerance per drum ± 1.5%

Note :

Conductor Shaped

1.5 - 10 sqmm supplied in solid (re) or circular stranded (rm) conductor shape
16 sqmm supplied in non compact circular stranded (rm) conductor shape
25 - 300 sqmm supplied in non compact circular stranded (rm) or compacted circular stranded (cm) conductor shape

Minimum Bending radius fixed installation

Multi core : 16 x D
D is overall diameter of cable

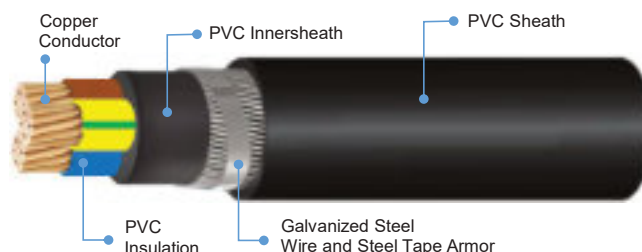
Construction Data

Nom.Cross Sect.	mm ²	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
Overall diameter (Approx.)	mm	14.0	15.5	16.5	18.5	20.0	22.5	25.5	27.5	31.5	35.5	40.5	43.5	48.5	53.5	59.5	65.0
Bending radius	mm	224	248	264	296	320	360	408	440	504	568	648	696	776	856	952	1040
Cable Weight (Approx.)	kg/km	368	415	527	705	855	1154	1649	1977	2420	3299	4212	4919	6260	7531	9274	11062

Electrical Data

Nom. Cross Sect.	Conductor		Current-Carrying Capacity at 30°C		Inductance	Short circuit current at 1 sec Max.
	DC Resistance at 20°C Max.	AC Resistance at 70°C Max.	in air Max.	in ground Max.		
(mm ²)	(Ω/km)	(Ω/km)	(A)	(A)	(mH/km)	(kA)
1.5	12.1	14.5	22	27	0.329	0.17
2.5	7.41	8.87	37	36	0.306	0.29
4	4.61	5.52	39	48	0.305	0.46
6	3.08	3.69	50	60	0.289	0.69
10	1.83	2.19	66	78	0.270	1.15
16	1.15	1.38	90	103	0.256	1.84
25	0.727	0.870	121	135	0.257	2.88
35	0.524	0.627	151	161	0.248	4.03
50	0.387	0.464	181	188	0.248	5.75
70	0.268	0.321	231	231	0.239	8.05
95	0.193	0.232	276	281	0.238	10.93
120	0.153	0.184	322	322	0.233	13.80
150	0.124	0.150	377	357	0.233	17.25
185	0.0991	0.121	432	411	0.234	21.28
240	0.0754	0.0930	513	474	0.232	27.60
300	0.0601	0.0754	593	528	0.231	34.50

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NYRGbY 3 x (1.5 - 300) mm²
Cu / PVC / SWA / PVC
(Copper Conductor, PVC Insulated, Galvanized Steel Wire Armor, PVC Sheathed)
Standard Specification : SNI IEC 60502-1

APPLICATION :

For installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

Special Features on Request

- Flame Retardant Non Category
- Flame Retardant Cat. A, B, C
- Heat Resistance
- Oil Resistance
- UV Resistance
- Anti Termite
- Anti Rodent

Note :
Conductor Shaped

1.5 - 10 sqmm supplied in solid (re) or circular stranded (rm) conductor shape
16 sqmm supplied in non compact circular stranded (rm) conductor shape
25 - 35 sqmm supplied in compacted circular stranded (cm) conductor shape
50 - 300 sqmm supplied in compacted circular stranded or sector shaped stranded (sm) conductor

Standard Packing

1.5 - 95 sqmm supplied in wooden drum @ 1000 m
120 sqmm and above will be supplied in wooden drum on available length
Length Tolerance per drum $\pm 1.5\%$

Minimum Bending radius fixed installation

Multi core : 16 x D
D is overall diameter of cable

Construction Data

Nom.Cross Sect.	mm ²	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
Overall diameter (Approx.)	mm	14.5	16.0	18.0	19.0	21.0	23.5	27.0	29.0	33.0	38.5	43.0	46.5	52.0	56.5	63.5	69.0
Bending radius	mm	232	256	288	304	336	376	432	464	528	616	688	744	832	904	1016	1104
Cable Weight (Approx.)	kg/km	397	459	679	785	987	1351	1953	2368	2751	3784	4795	5630	7186	8617	10788	12908

Electrical Data

Nom. Cross Sect.	Conductor		Current-Carrying Capacity at 30°C		Inductance	Short circuit current at 1 sec Max.
	DC Resistance at 20°C Max.	AC Resistance at 70°C Max.	in air Max.	in ground Max.		
(mm ²)	(Ω /km)	(Ω /km)	(A)	(A)	(mH/km)	(kA)
1.5	12.1	14.5	20	24	0.329	0.17
2.5	7.41	8.87	26	32	0.306	0.29
4	4.61	5.52	35	41	0.305	0.46
6	3.08	3.69	45	52	0.289	0.69
10	1.83	2.19	60	69	0.270	1.15
16	1.15	1.38	80	89	0.256	1.84
25	0.727	0.870	106	117	0.257	2.88
35	0.524	0.627	131	139	0.248	4.03
50	0.387	0.464	161	166	0.248	5.75
70	0.268	0.321	201	206	0.239	8.05
95	0.193	0.232	246	246	0.238	10.93
120	0.153	0.184	286	286	0.233	13.80
150	0.124	0.150	327	317	0.233	17.25
185	0.0991	0.121	372	357	0.234	21.28
240	0.0754	0.0930	437	417	0.232	27.60
300	0.0601	0.0754	595	467	0.231	34.50

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

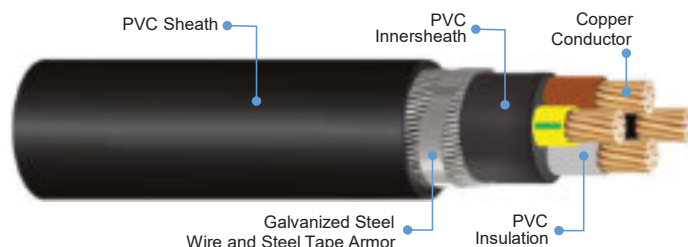
0.6/1(1.2) kV 4 Cores PVC Armored Cable

NYRGbY 4 x (1.5 - 300) mm²

Cu / PVC / SWA / PVC

(Copper Conductor, PVC Insulated, Galvanized Steel Wire Armor, PVC Sheathed)

Standard Specification : SNI IEC 60502-1



APPLICATION :

For installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

Special Features on Request

- Flame Retardant Non Category
- Flame Retardant Cat. A, B, C
- Heat Resistance
- Oil Resistance
- UV Resistance
- Anti Termite
- Anti Rodent

Note :

Conductor Shaped

1.5 - 10 sqmm supplied in solid (re) or circular stranded (rm) conductor shape
16 sqmm supplied in non compact circular stranded (rm) conductor shape
25 - 35 sqmm supplied in compacted circular stranded (cm) conductor shape
50 - 300 sqmm supplied in compacted circular stranded or sector shaped stranded (sm) conductor

Standard Packing

1.5 - 70 sqmm supplied in wooden drum @ 1000 m
95 sqmm and above will be supplied in wooden drum on available length
Length Tolerance per drum $\pm 1.5\%$

Minimum Bending radius fixed installation

Multi core : $16 \times D$
D is overall diameter of cable

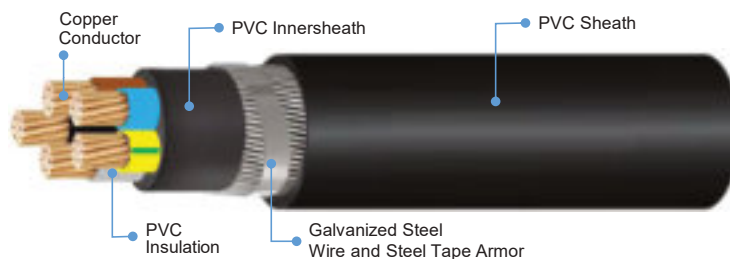
Construction Data

Nom.Cross Sect.	mm ²	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
Overall diameter (Approx.)	mm	15.5	17.0	19.0	20.5	22.5	26.0	29.0	31.5	37.5	41.5	48.0	52.0	57.0	62.5	69.5	76.0
Bending radius	mm	248	272	304	328	360	416	464	504	600	664	768	832	912	1000	1112	1216
Cable Weight (Approx.)	kg/km	445	549	765	903	1164	1741	2333	2864	3712	4728	6451	7630	9126	11033	13910	17575

Electrical Data

Nom. Cross Sect.	Conductor		Current-Carrying Capacity at 30°C		Inductance	Short circuit current at 1 sec Max.
	DC Resistance at 20°C Max.	AC Resistance at 70°C Max.	in air Max.	in ground Max.		
(mm ²)	(Ω /km)	(Ω /km)	(A)	(A)	(mH/km)	(kA)
1.5	12.1	14.5	20	24	0.329	0.17
2.5	7.41	8.87	26	32	0.306	0.29
4	4.61	5.52	35	41	0.305	0.46
6	3.08	3.69	45	52	0.289	0.69
10	1.83	2.19	60	69	0.270	1.15
16	1.15	1.38	80	89	0.256	1.84
25	0.727	0.870	106	117	0.257	2.88
35	0.524	0.627	131	139	0.248	4.03
50	0.387	0.464	161	166	0.248	5.75
70	0.268	0.321	201	206	0.239	8.05
95	0.193	0.232	246	246	0.238	10.93
120	0.153	0.184	286	286	0.233	13.80
150	0.124	0.150	327	317	0.233	17.25
185	0.0991	0.121	372	357	0.234	21.28
240	0.0754	0.0930	437	417	0.232	27.60
300	0.0601	0.0754	595	467	0.231	34.50

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NYRGbY 5 x (1.5 - 50) mm²
Cu / PVC / SWA / PVC
(Copper Conductor, PVC Insulated, Galvanized Steel Wire Armor, PVC Sheathed)
Standard Specification : SNI IEC 60502-1

APPLICATION :

For installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

Special Features on Request

- Flame Retardant Non Category
- Flame Retardant Cat. A, B, C
- Heat Resistance
- Oil Resistance
- UV Resistance
- Anti Termite
- Anti Rodent

Note :
Conductor Shaped

- 1.5 - 10 sqmm supplied in solid (re) or circular stranded (rm) conductor shape
- 16 sqmm supplied in non compact circular stranded (rm) conductor shape
- 25 - 50 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

1.5 - 50 sqmm supplied in wooden drum @ 1000 m
Length Tolerance per drum $\pm 1.5\%$
Minimum Bending radius fixed installation

Multi core : 16 x D
D is overall diameter of cable

Construction Data

Nom.Cross Sect.	mm ²	1.5	2.5	4	6	10	16	25	35	50
Overall diameter (Approx.)	mm	16.0	18.0	20.5	22.0	25.0	28.0	31.5	35.5	40.5
Bending radius	mm	256	288	328	352	400	448	504	568	648
Cable Weight (Approx.)	kg/km	497	588	876	1044	1480	2035	2753	3642	4492

Electrical Data

Nom. Cross Sect.	Conductor		Current-Carrying Capacity at 30°C		Inductance	Short circuit current at 1 sec Max.
	DC Resistance at 20°C Max.	AC Resistance at 70°C Max.	in air Max.	in ground Max.		
(mm ²)	(Ω /km)	(Ω /km)	(A)	(A)	(mH/km)	(kA)
1.5	12.1	14.5	20	24	0.329	0.17
2.5	7.41	8.87	26	34	0.306	0.29
4	4.61	5.52	35	41	0.305	0.46
6	3.08	3.69	45	52	0.289	0.69
10	1.83	2.19	60	69	0.270	1.15
16	1.15	1.38	80	89	0.256	1.84
25	0.727	0.870	106	117	0.257	2.88
35	0.524	0.627	131	139	0.248	4.03
50	0.387	0.464	161	166	0.241	5.75

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NYFGbY 2 x (1.5 - 300) mm²

Cu / PVC / SFA / PVC

(Copper Conductor, PVC Insulated, Galvanized Flat Steel Wire Armor, PVC Sheathed)

Standard Specification : SNI IEC 60502-1



APPLICATION :

For installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

Special Features on Request

- Flame Retardant Non Category
- Flame Retardant Cat. A, B, C
- Heat Resistance
- Oil Resistance
- UV Resistance
- Anti Termite
- Anti Rodent

Note :

Conductor Shaped

1.5 - 10 sqmm supplied in solid (re) or round stranded (rm)

conductor shape

16 sqmm supplied in round stranded (rm) conductor shape

25 - 630 sqmm supplied in round stranded (rm) or compacted circular stranded (cm) conductor shape

Standard Packing

1.5 - 120 sqmm supplied in wooden drum @ 1000 m

185 sqmm and above will be supplied in wooden drum on available length

Length Tolerance per drum $\pm 1.5\%$

Minimum Bending radius fixed installation

Multi cores : $16 \times D$

D is overall diameter of cable

Construction Data

Nom.Cross Sect.	mm ²	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
Overall diameter (Approx.)	mm	17.5	17.5	17.5	17.5	19.5	21.5	24.0	26.0	29.5	33.5	38.0	41.0	45.0	49.5	55.5	61.5
Bending radius	mm	280	280	280	280	312	344	384	416	472	536	608	656	720	792	888	984
Cable Weight (Approx.)	kg/km	607	626	644	683	876	1084	1426	1751	2117	2713	3524	4172	5006	6109	7686	9373

Electrical Data

Nom. Cross Sect.	Conductor		Current-Carrying Capacity at 30°C		Inductance	Short circuit current at 1 sec Max.
	DC Resistance at 20°C Max.	AC Resistance at 70°C Max.	in air Max.	in ground Max.		
(mm ²)	(Ω /km)	(Ω /km)	(A)	(A)	(mH/km)	(kA)
1.5	12.1	14.5	24	27	0.329	0.17
2.5	7.41	8.87	37	36	0.306	0.29
4	4.61	5.52	42	48	0.305	0.46
6	3.08	3.69	53	61	0.289	0.69
10	1.83	2.19	73	81	0.270	1.15
16	1.15	1.38	96	107	0.256	1.84
25	0.727	0.870	127	137	0.257	2.88
35	0.524	0.627	156	165	0.248	4.03
50	0.387	0.464	187	195	0.248	5.75
70	0.268	0.321	236	240	0.239	8.05
95	0.193	0.232	287	285	0.238	10.93
120	0.153	0.184	333	326	0.233	13.80
150	0.124	0.150	379	366	0.233	17.25
185	0.0991	0.121	432	410	0.234	21.28
240	0.0754	0.0930	510	474	0.232	27.60
300	0.0601	0.0754	584	533	0.231	34.50

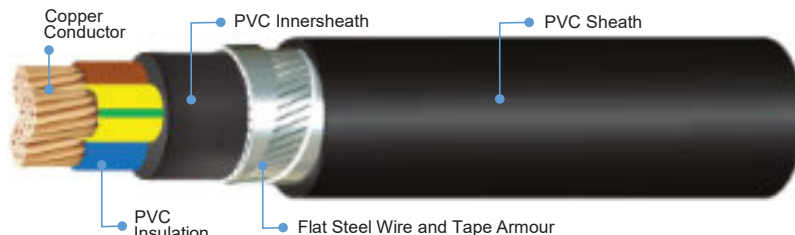
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NYFGbY 3 x (1.5 - 300) mm²

Cu / PVC / SFA / PVC

(Copper Conductor, PVC Insulated, Galvanized Flat Steel Wire Armor, PVC Sheathed)

Standard Specification : SNI IEC 60502-1



APPLICATION :

For installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

Special Features on Request

- Flame Retardant Non Category
- Flame Retardant Cat. A, B, C
- Heat Resistance
- Oil Resistance
- UV Resistance
- Anti Termite
- Anti Rodent

Note :

Conductor Shaped

1.5 - 10 sqmm supplied in solid (re) or round stranded (rm) conductor shape
16 sqmm supplied in round stranded (rm) conductor shape
25 - 300 sqmm supplied in round stranded (rm) or compacted circular stranded (cm) conductor shape
50 - 300 sqmm supplied sector shaped stranded (sm) conductor

Standard Packing

1.5 - 95 sqmm supplied in wooden drum @ 1000 m
120 sqmm and above will be supplied in wooden drum on available length
Length Tolerance per drum $\pm 1.5\%$

Minimum Bending radius fixed installation

Multi cores : 16 x D
D is overall diameter of cable

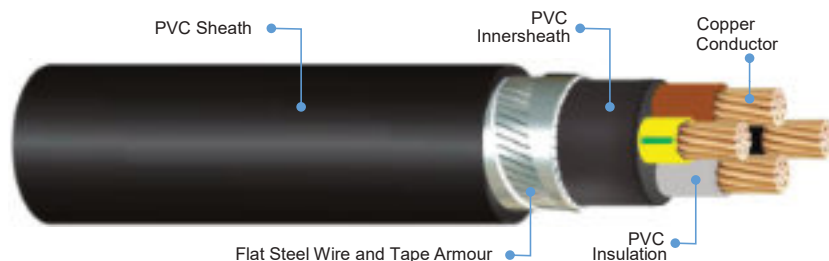
Construction Data

Nom.Cross Sect.	mm ²	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
Overall diameter (Approx.)	mm	17.5	17.5	17.5	18.5	20.5	22.5	25.5	27.5	31.5	35.5	40.5	44.0	48.5	53.0	60.0	65.5
Bending radius	mm	280	280	280	296	328	360	408	440	504	568	648	704	776	848	960	1048
Cable Weight (Approx.)	kg/km	616	644	677	784	996	1278	1707	2120	2441	3213	4166	4951	6004	7310	9313	11330

Electrical Data

Conductor			Current-Carrying Capacity at 30°C		Inductance	Short circuit current at 1 sec Max.
Nom. Cross Sect.	DC Resistance at 20°C Max.	AC Resistance at 70°C Max.				
(mm ²)	(Ω/km)	(Ω/km)	in air Max.	in ground Max.	(mH/km)	(kA)
1.5	12.1	14.5	20	24	0.329	0.17
2.5	7.41	8.87	27	32	0.306	0.29
4	4.61	5.52	36	41	0.305	0.46
6	3.08	3.69	45	52	0.289	0.69
10	1.83	2.19	62	69	0.270	1.15
16	1.15	1.38	82	90	0.256	1.84
25	0.727	0.870	109	117	0.257	2.88
35	0.524	0.627	134	140	0.248	4.03
50	0.387	0.464	167	172	0.248	5.75
70	0.268	0.321	209	210	0.239	8.05
95	0.193	0.232	256	251	0.238	10.93
120	0.153	0.184	296	285	0.233	13.80
150	0.124	0.150	339	320	0.233	17.25
185	0.0991	0.121	389	361	0.234	21.28
240	0.0754	0.0930	459	416	0.232	27.60
300	0.0601	0.0754	595	468	0.231	34.50

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NYFGbY 4 x (1.5 - 300) mm²
Cu / PVC / SFA / PVC
(Copper Conductor, PVC Insulated, Galvanized Flat Steel Wire Armor, PVC Sheathed)
Standard Specification : SNI IEC 60502-1

APPLICATION :

For installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

Special Features on Request

- Flame Retardant Non Category
- Flame Retardant Cat. A, B, C
- Heat Resistance
- Oil Resistance
- UV Resistance
- Anti Termite
- Anti Rodent

Note :
Conductor Shaped

1.5 - 10 sqmm supplied in solid (re) or round stranded (rm)

conductor shape

16 sqmm supplied in round stranded (rm) conductor shape

25 - 300 sqmm supplied in round stranded (rm) or compacted circular stranded (cm) conductor shape

50 - 300 sqmm supplied sector shaped stranded (sm) conductor

Standard Packing

1.5 - 70 sqmm supplied in wooden drum @ 1000 m

95 sqmm and above will be supplied in wooden drum on available length

Length Tolerance per drum $\pm 1.5\%$
Minimum Bending radius fixed installation

Multi cores : 16 x D

D is overall diameter of cable

Construction Data

Nom.Cross Sect.	mm ²	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
Overall diameter (Approx.)	mm	17.5	17.5	18.5	19.5	22.0	24.5	27.5	30.0	35.0	39.0	44.5	48.5	53.5	59.0	66.0	72.5
Bending radius	mm	280	280	296	312	352	392	440	480	560	624	712	776	856	944	1056	1160
Cable Weight (Approx.)	kg/km	626	658	768	906	1173	1518	2050	2581	3169	4082	5352	6451	7858	9544	12123	14755

Electrical Data

Nom. Cross Sect.	Conductor		Current-Carrying Capacity at 30°C		Inductance	Short circuit current at 1 sec Max.
	DC Resistance at 20°C Max.	AC Resistance at 70°C Max.	in air Max.	in ground Max.		
(mm ²)	(Ω /km)	(Ω /km)	(A)	(A)	(mH/km)	(kA)
1.5	12.1	14.5	23	27	0.329	0.17
2.5	7.41	8.87	31	36	0.306	0.29
4	4.61	5.52	41	48	0.305	0.46
6	3.08	3.69	52	59	0.289	0.69
10	1.83	2.19	71	79	0.270	1.15
16	1.15	1.38	94	102	0.256	1.84
25	0.727	0.870	127	132	0.257	2.88
35	0.524	0.627	155	158	0.248	4.03
50	0.387	0.464	178	177	0.248	5.75
70	0.268	0.321	222	216	0.239	8.05
95	0.193	0.232	273	258	0.238	10.93
120	0.153	0.184	316	293	0.233	13.80
150	0.124	0.150	365	332	0.233	17.25
185	0.0991	0.121	414	371	0.234	21.28
240	0.0754	0.0930	490	429	0.232	27.60
300	0.0601	0.0754	595	483	0.231	34.50

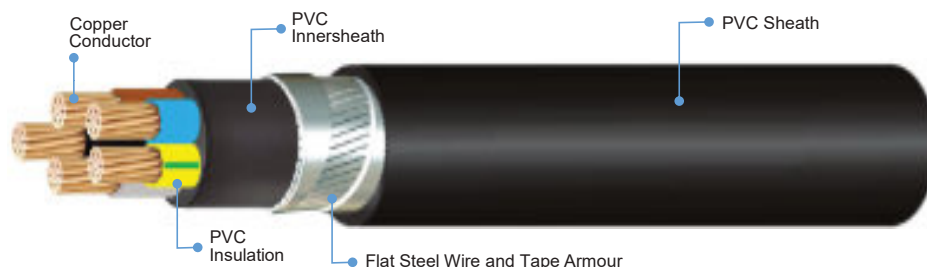
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NYFGbY 5 x (1.5 - 50) mm²

Cu / PVC / SFA / PVC

(Copper Conductor, PVC Insulated, Galvanized Flat Steel Wire Armor, PVC Sheathed)

Standard Specification : SNI IEC 60502-1



APPLICATION :

For installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

Special Features on Request

- Flame Retardant Non Category
- Flame Retardant Cat. A, B, C
- Heat Resistance
- Oil Resistance
- UV Resistance
- Anti Termite
- Anti Rodent

Note :

Conductor Shaped

1.5 - 10 sqmm supplied in solid (re) or round stranded (rm)

conductor shape

16 sqmm supplied in round stranded (rm) conductor shape

25 - 50 sqmm supplied in round stranded (rm) or compacted circular stranded (cm) conductor shape

Standard Packing

1.5 - 50 sqmm supplied in wooden drum @ 1000 m

Length Tolerance per drum $\pm 1.5\%$

Minimum Bending radius fixed installation

Multi cores : $16 \times D$

D is overall diameter of cable

Construction Data

Nom.Cross Sect.	mm ²	1.5	2.5	4	6	10	16	25	35	50
Overall diameter (Approx.)	mm	17.5	18.0	19.5	21.0	23.5	26.5	30.0	33.0	38.0
Bending radius	mm	210	216	234	252	282	318	360	396	456
Cable Weight (Approx.)	kg/km	638	678	886	1055	1389	1776	2460	3102	3899

Electrical Data

Nom. Cross Sect.	Conductor		Current-Carrying Capacity at 30°C		Inductance	Short circuit current at 1 sec Max.
	DC Resistance at 20°C Max.	AC Resistance at 70°C Max.	in air Max.	in ground Max.		
(mm ²)	(Ω/km)	(Ω/km)	(A)	(A)	(mH/km)	(kA)
1.5	12.1	14.5	24	28	0.329	0.17
2.5	7.41	8.87	32	37	0.306	0.29
4	4.61	5.52	43	48	0.305	0.46
6	3.08	3.69	54	60	0.289	0.69
10	1.83	2.19	74	80	0.270	1.15
16	1.15	1.38	97	104	0.256	1.84
25	0.727	0.870	131	134	0.257	2.88
35	0.524	0.627	161	160	0.248	4.03
50	0.387	0.464	195	189	0.241	5.75

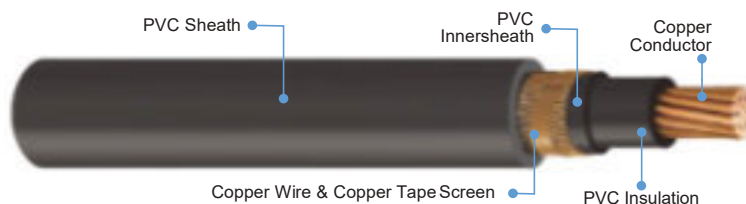
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NYCY 1 x (1.5 - 630) mm²

Cu / PVC / CWS / PVC

(Copper Conductor, PVC Insulated, Copper Wire Screen, PVC Sheathed)

Standard Specification : SNI IEC 60502-1



APPLICATION :

For installation in the ground, indoors, cable trunking and outdoors if subsequent mechanical damage is likely. For urban networks, household feeders and street lighting.

Special Features on Request

- Flame Retardant Non Category
- Flame Retardant Cat. A, B, C
- Heat Resistance
- Oil Resistance
- UV Resistance
- Anti Termite
- Anti Rodent

Note :

Conductor Shaped

1.5 - 10 sqmm supplied in solid (re) or round stranded (rm) conductor shape
16 sqmm supplied in round stranded (rm) conductor shape
25 - 630 sqmm supplied in round stranded (rm) or compacted circular stranded (cm) conductor shape

Standard Packing

1.5 - 240 sqmm supplied in wooden drum @ 1000 m
300 sqmm and above will be supplied in wooden drum on available length
Length Tolerance per drum $\pm 1.5\%$

Minimum Bending radius fixed installation

Single core : 10 x D
D is overall diameter of cable

Construction Data

Nom. Cross Sect.	mm ²	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240	300	400	500	630
Overall diameter (Approx.)	mm	10.0	10.5	11.5	12.0	13.0	14.0	16.0	17.0	19.5	21.5	24.0	26.5	28.0	31.0	34.5	37.5	42.0	46.5	46.5
Bending radius	mm	100	105	115	120	130	140	160	170	195	215	240	265	280	310	345	375	420	465	465
Cable Weight (Approx.)	kg/km	120	142	187	232	322	453	578	683	937	1257	1676	2119	2407	3045	3893	4772	6024	7680	7680

Electrical Data

Conductor			Current-Carrying Capacity at 30°C				Inductance		Short circuit current at 1 sec Max.
Nom. Cross Sect.	DC Resistance at 20°C Max.	AC Resistance at 70°C Max.					Trefoil formation 	Flat formation 	
			in air Max.	in ground Max.	in air Max.	in ground Max.			
(mm²)	(Ω/km)	(Ω/km)	(A)	(A)	(A)	(A)	(mH/km)	(mH/km)	(kA)
1.5	12.1	14.5	24	27	24	28	0.552	0.598	0.17
2.5	7.41	8.87	31	35	32	36	0.513	0.559	0.29
4	4.61	5.52	41	46	42	47	0.485	0.531	0.46
6	3.08	3.69	52	57	53	59	0.455	0.501	0.69
10	1.83	2.19	70	76	72	78	0.420	0.466	1.15
16	1.15	1.38	94	99	99	106	0.394	0.440	1.84
25	0.727	0.870	125	128	134	137	0.384	0.431	2.88
35	0.524	0.627	152	153	168	163	0.367	0.413	4.03
50	0.387	0.464	186	182	203	194	0.361	0.407	5.75
70	0.268	0.321	233	222	257	238	0.346	0.392	8.05
95	0.193	0.232	285	264	317	286	0.337	0.383	10.93
120	0.153	0.184	331	298	371	326	0.331	0.377	13.80
150	0.124	0.150	376	335	426	370	0.320	0.366	17.25
185	0.0991	0.121	436	379	485	414	0.320	0.366	21.28
240	0.0754	0.0930	525	432	584	476	0.313	0.359	27.60
300	0.0601	0.0754	604	485	673	546	0.308	0.354	34.50
400	0.047	0.0607	733	573	817	626	0.307	0.354	41.20
500	0.0366	0.0494	851	652	950	723	0.301	0.347	51.50
630	0.0283	0.0390	775	581	765	568	0.294	0.340	41.20

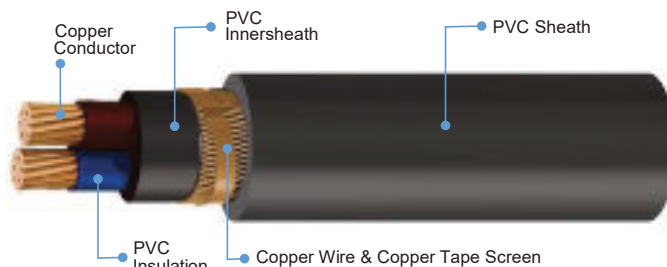
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NYCY 2 x (1.5 - 300) mm²

Cu / PVC / CWS / PVC

(Copper Conductor, PVC Insulated, Copper Wire Screen, PVC Sheathed)

Standard Specification : SNI IEC 60502-1



APPLICATION :

For installation in the ground, indoors, cable trunking and outdoors if subsequent mechanical damage is likely.
For urban networks, household feeders and street lighting

Special Features on Request

- Flame Retardant Non Category
- Flame Retardant Cat. A, B, C
- Heat Resistance
- Oil Resistance
- UV Resistance
- Anti Termite
- Anti Rodent

Note :

Conductor Shaped

1.5 - 10 sqmm supplied in solid (re) or round stranded (rm)
conductor shape
16 sqmm supplied in round stranded (rm) conductor shape
25 - 300 sqmm supplied in round stranded (rm) or compacted
circular stranded (cm) conductor shape

Standard Packing

1.5 - 150 sqmm supplied in wooden drum @ 1000 m
185 sqmm and above will be supplied in wooden drum on
available length
Length Tolerance per drum $\pm 1.5\%$

Minimum Bending radius fixed installation

Multi cores : 10 x D
D is overall diameter of cable

Construction Data

Nom. Cross Sect.	mm ²	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
Overall diameter (Approx.)	mm	13.0	14.0	16.0	17.0	19.0	21.5	24.1	26.5	30.0	33.5	38.0	42.0	46.0	50.5	57.5	63.0
Bending radius	mm	130	140	160	170	190	215	241	318	300	335	380	420	460	505	575	630
Cable Weight (Approx.)	kg/km	213	256	349	433	603	832	1114	1377	1752	2365	3220	4000	4739	5967	7657	9466

Electrical Data

Nom. Cross Sect.	Conductor		Current-Carrying Capacity at 30°C		Inductance	Short circuit current at 1 sec Max.
	DC Resistance at 20°C Max.	AC Resistance at 70°C Max.	in air Max.	in ground Max.		
(mm ²)	(Ω /km)	(Ω /km)	(A)	(A)	(mH/km)	(kA)
1.5	12.1	14.5	24	28	0.329	0.17
2.5	7.41	8.87	31	37	0.306	0.29
4	4.61	5.52	42	48	0.305	0.46
6	3.08	3.69	53	60	0.289	0.69
10	1.83	2.19	72	81	0.270	1.15
16	1.15	1.38	96	107	0.256	1.84
25	0.727	0.870	127	137	0.257	2.88
35	0.524	0.627	155	165	0.248	4.03
50	0.387	0.464	188	195	0.248	5.75
70	0.268	0.321	235	240	0.239	8.05
95	0.193	0.232	286	285	0.238	10.93
120	0.153	0.184	334	326	0.233	13.80
150	0.124	0.150	379	364	0.233	17.25
185	0.0991	0.121	431	407	0.234	21.28
240	0.0754	0.0930	506	468	0.232	27.60
300	0.0601	0.0754	584	520	0.231	34.50

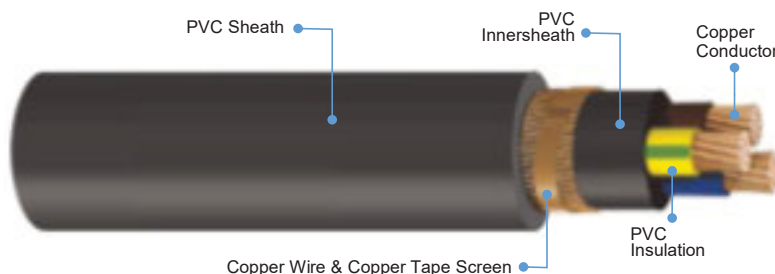
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NYCY 3 x (1.5 - 300) mm²

Cu / PVC / CWS / PVC

(Copper Conductor, PVC Insulated, Copper Wire Screen, PVC Sheathed)

Standard Specification : SNI IEC 60502-1



APPLICATION :

For installation in the ground, indoors, cable trunking and outdoors if subsequent mechanical damage is likely. For urban networks, household feeders and street lighting.

Special Features on Request

- Flame Retardant Non Category
- Flame Retardant Cat. A, B, C
- Heat Resistance
- Oil Resistance
- UV Resistance
- Anti Termite
- Anti Rodent

Note :

Conductor Shaped

1.5 - 10 sqmm supplied in solid (re) or round stranded (rm) conductor shape
16 sqmm supplied in round stranded (rm) conductor shape
25 - 300 sqmm supplied in round stranded (rm) or compacted circular stranded (cm) conductor shape
50 - 300 sqmm supplied sector shaped stranded (sm) conductor

Standard Packing

1.5 - 95 sqmm supplied in wooden drum @ 1000 m
120 sqmm and above will be supplied in wooden drum on available length
Length Tolerance per drum $\pm 1.5\%$

Minimum Bending radius fixed installation

Multi cores : 10 x D
D is overall diameter of cable

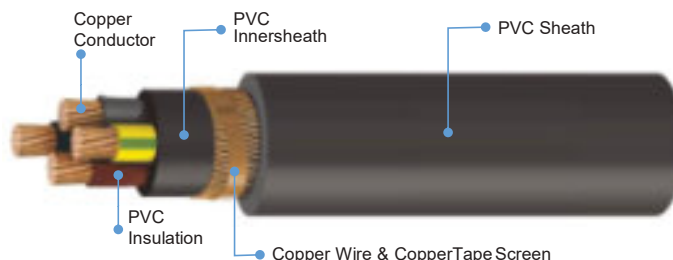
Construction Data

Nom.Cross Sect.	mm ²	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
Overall diameter (Approx.)	mm	13.5	14.5	16.5	17.5	20.0	22.5	25.5	28.0	31.5	34.5	38.8	42.5	47.0	51.5	58.0	63.3
Bending radius	mm	135	145	165	175	200	225	255	336	315	345	388	425	470	515	580	633
Cable Weight (Approx.)	kg/km	241	296	403	506	715	1000	1363	1714	2086	2853	3860	4781	5735	7168	9284	11454

Electrical Data

Conductor			Current-Carrying Capacity at 30°C		Inductance	Short circuit current at 1 sec Max.
Nom. Cross Sect.	DC Resistance at 20°C Max.	AC Resistance at 70°C Max.				
(mm ²)	(Ω/km)	(Ω/km)	in air Max.	in ground Max.	(mH/km)	(kA)
1.5	12.1	14.5	20	24	0.329	0.17
2.5	7.41	8.87	27	32	0.306	0.29
4	4.61	5.52	35	41	0.305	0.46
6	3.08	3.69	45	51	0.289	0.69
10	1.83	2.19	61	69	0.270	1.15
16	1.15	1.38	82	90	0.256	1.84
25	0.727	0.870	109	116	0.257	2.88
35	0.524	0.627	133	140	0.248	4.03
50	0.387	0.464	168	172	0.248	5.75
70	0.268	0.321	209	209	0.239	8.05
95	0.193	0.232	256	251	0.238	10.93
120	0.153	0.184	297	285	0.233	13.80
150	0.124	0.150	339	319	0.233	17.25
185	0.0991	0.121	388	358	0.234	21.28
240	0.0754	0.0930	456	411	0.232	27.60
300	0.0601	0.0754	519	460	0.231	34.50

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NYCY 4 x (1.5 - 300) mm²
Cu / PVC / CWS / PVC
(Copper Conductor, PVC Insulated, Copper Wire Screen, PVC Sheathed)
Standard Specification : SNI IEC 60502-1

APPLICATION :

For installation in the ground, indoors, cable trunking and outdoors if subsequent mechanical damage is likely. For urban networks, household feeders and street lighting

Special Features on Request

- Flame Retardant Non Category
- Flame Retardant Cat. A, B, C
- Heat Resistance
- Oil Resistance
- UV Resistance
- Anti Termite
- Anti Rodent

Note :
Conductor Shaped

1.5 - 10 sqmm supplied in solid (re) or round stranded (rm) conductor shape
16 sqmm supplied in round stranded (rm) conductor shape
25 - 300 sqmm supplied in round stranded (rm) or compacted circular stranded (cm) conductor shape
50 - 300 sqmm supplied sector shaped stranded (sm) conductor

Standard Packing

1.5 - 70 sqmm supplied in wooden drum @ 1000 m
95 sqmm and above will be supplied in wooden drum on available length
Length Tolerance per drum $\pm 1.5\%$

Minimum Bending radius fixed installation

Multi cores : $10 \times D$
D is overall diameter of cable

Construction Data

Nom.Cross Sect.	mm ²	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
Overall diameter (Approx.)	mm	14.5	15.5	18.0	19.0	21.5	24.0	28.0	30.0	36.0	39.0	44.8	49.0	55.5	60.0	67.0	73.5
Bending radius	mm	145	155	180	190	215	240	280	300	360	390	448	490	555	600	670	735
Cable Weight (Approx.)	kg/km	273	342	471	596	858	1206	1672	2117	2683	3624	4917	6121	7397	9216	11876	14651

Electrical Data

Nom. Cross Sect.	Conductor		Current-Carrying Capacity at 30°C		Inductance	Short circuit current at 1 sec Max.
	DC Resistance at 20°C Max.	AC Resistance at 70°C Max.	in air Max.	in ground Max.		
(mm ²)	(Ω /km)	(Ω /km)	(A)	(A)	(mH/km)	(kA)
1.5	12.1	14.5	23	28	0.329	0.17
2.5	7.41	8.87	30	36	0.306	0.29
4	4.61	5.52	41	47	0.305	0.46
6	3.08	3.69	52	59	0.289	0.69
10	1.83	2.19	70	78	0.270	1.15
16	1.15	1.38	93	102	0.256	1.84
25	0.727	0.870	126	131	0.257	2.88
35	0.524	0.627	153	157	0.248	4.03
50	0.387	0.464	177	176	0.248	5.75
70	0.268	0.321	221	215	0.239	8.05
95	0.193	0.232	273	258	0.238	10.93
120	0.153	0.184	317	293	0.233	13.80
150	0.124	0.150	365	330	0.233	17.25
185	0.0991	0.121	412	368	0.234	21.28
240	0.0754	0.0930	486	423	0.232	27.60
300	0.0601	0.0754	553	471	0.231	34.50

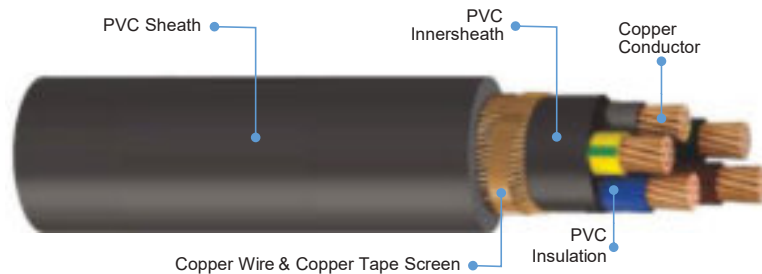
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NYCY 5 x (1.5 - 50) mm²

Cu / PVC / CWS / PVC

(Copper Conductor, PVC Insulated, Copper Wire Screen, PVC Sheathed)

Standard Specification : SNI IEC 60502-1



APPLICATION :

For installation in the ground, indoors, cable trunking and outdoors if subsequent mechanical damage is likely. For urban networks, household feeders and street lighting

Special Features on Request

- Flame Retardant Non Category
- Flame Retardant Cat. A, B, C
- Heat Resistance
- Oil Resistance
- UV Resistance
- Anti Termite
- Anti Rodent

Note :

Conductor Shaped

1.5 - 10 sqmm supplied in solid (re) or round stranded (rm) conductor shape
16 sqmm supplied in round stranded (rm) conductor shape
25 - 50 sqmm supplied in round stranded (rm) or compacted circular stranded (cm) conductor shape

Standard Packing

1.5 - 50 sqmm supplied in wooden drum @ 1000 m
Length Tolerance per drum $\pm 1.5\%$

Minimum Bending radius fixed installation

Multi cores : 10 x D
D is overall diameter of cable

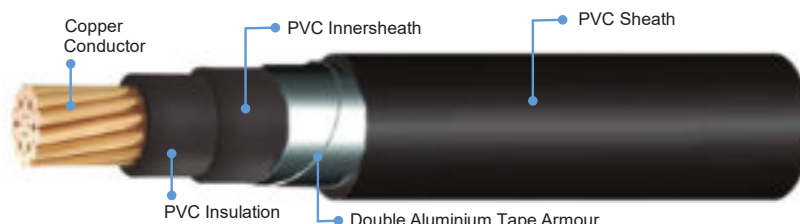
Construction Data

Nom.Cross Sect.	mm ²	1.5	2.5	4	6	10	16	25	35	50
Overall diameter (Approx.)	mm	15.5	16.5	19.0	21.0	23.5	26.0	30.5	33.0	38.0
Bending radius	mm	155	165	190	210	235	260	305	330	380
Cable Weight (Approx.)	kg/km	321	399	557	708	1019	1429	2005	2573	3376

Electrical Data

Conductor			Current-Carrying Capacity at 30°C		Inductance	Short circuit current at 1 sec Max.
Nom. Cross Sect.	DC Resistance at 20°C Max.	AC Resistance at 70°C Max.	in air Max.	in ground Max.		
(mm ²)	(Ω /km)	(Ω /km)	(A)	(A)	(mH/km)	(kA)
1.5	12.1	14.5	24	28	0.329	0.17
2.5	7.41	8.87	31	37	0.306	0.29
4	4.61	5.52	42	48	0.305	0.46
6	3.08	3.69	53	60	0.289	0.69
10	1.83	2.19	73	79	0.270	1.15
16	1.15	1.38	97	104	0.256	1.84
25	0.727	0.870	130	133	0.257	2.88
35	0.524	0.627	159	159	0.248	4.03
50	0.387	0.464	193	187	0.248	5.75

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NYB(AL)Y 1 x (16 - 630) mm²
Cu / PVC / DATA / PVC
(Copper Conductor, PVC Insulated, Double Aluminium Tape Armor, PVC Sheathed)
Standard Specification : SNI IEC 60502-1

APPLICATION :

For industry installations, switchgear, and power station, if there is a risk that low mechanical damage may occur. Installation indoors, cable channels and in ground

Special Features on Request

- Flame Retardant Non Category
- Flame Retardant Cat. A, B, C
- Heat Resistance
- Oil Resistance
- UV Resistance
- Anti Termite
- Anti Rodent

Note :
Conductor Shaped

1.5 - 10 sqmm supplied in solid (re) or round stranded (rm) conductor shape

16 sqmm supplied in round stranded (rm) conductor shape

25 - 630 sqmm supplied in round stranded (rm) or compacted circular stranded (cm) conductor shape

Standard Packing

16 - 400 sqmm supplied in wooden drum @ 1000 m

500 sqmm and above will be supplied in wooden drum on available length

Length Tolerance per drum $\pm 1.5\%$
Minimum Bending radius fixed installation

Single core : 18 x D

D is overall diameter of cable

Construction Data

Nom. Cross Sect.	mm ²	16	25	35	50	70	95	120	150	185	240	300	400	500	630
Overall diameter (Approx.)	mm	15.0	15.5	16.5	18.0	20.0	22.0	23.5	25.0	27.0	30.0	32.5	36.5	40.5	44.5
Bending radius	mm	270	279	297	324	360	396	423	450	486	540	585	657	729	801
Cable Weight (Approx.)	kg/km	394	494	604	780	1010	1296	1550	1848	2276	2922	3517	4471	5638	7181

Electrical Data

Conductor			Current-Carrying Capacity at 30°C				Inductance		Short circuit current at 1 sec Max.
Nom. Cross Sect.	DC Resistance at 20°C Max.	AC Resistance at 70°C Max.					Trefoil formation 	Flat formation 	
			in air Max.	in ground Max.	in air Max.	in ground Max.			
(mm²)	(Ω/km)	(Ω/km)	(A)	(A)	(A)	(A)	(mH/km)	(mH/km)	(kA)
16	1.15	1.38	94	98	97	102	0.408	0.454	1.84
25	0.727	0.870	125	128	128	132	0.379	0.425	2.88
35	0.524	0.627	152	153	156	157	0.361	0.407	4.03
50	0.387	0.464	185	181	190	186	0.347	0.393	5.75
70	0.268	0.321	231	222	237	227	0.327	0.373	8.05
95	0.193	0.232	283	265	290	270	0.316	0.363	10.93
120	0.153	0.184	328	300	336	307	0.305	0.351	13.80
150	0.124	0.150	374	337	382	343	0.299	0.345	17.25
185	0.0991	0.121	430	379	439	385	0.294	0.340	21.28
240	0.0754	0.0930	509	436	518	440	0.287	0.333	27.60
300	0.0601	0.0754	581	487	589	490	0.281	0.327	34.50
400	0.047	0.0607	666	545	671	545	0.279	0.325	41.20
500	0.0366	0.0494	761	606	761	601	0.273	0.319	51.50
630	0.0283	0.0390	862	668	856	657	0.265	0.311	41.20

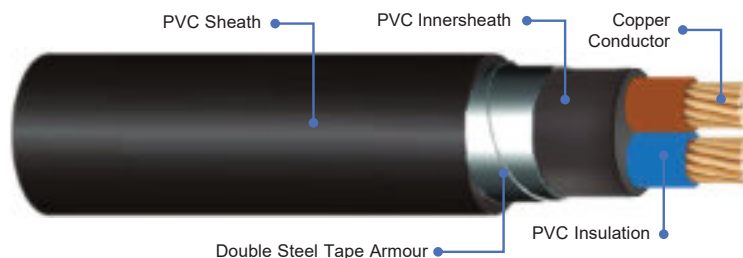
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NYBY 2 x (1.5 - 300) mm²

Cu / PVC / DSTA / PVC

(Copper Conductor, PVC Insulated, Double Galvanized Steel Tape Armor, PVC Sheathed)

Standard Specification : SNI IEC 60502-1



APPLICATION :

For industry installations, switchgear, and power station, if there is a risk that low mechanical damage may occur. Installation indoors, cable channels and in ground.

Special Features on Request

- Flame Retardant Non Category
- Flame Retardant Cat. A, B, C
- Heat Resistance
- Oil Resistance
- UV Resistance
- Anti Termite
- Anti Rodent

Note :

Conductor Shaped

1.5 - 10 sqmm supplied in solid (re) or round stranded (rm)
conductor shape
16 sqmm supplied in round stranded (rm) conductor shape
25 - 300 sqmm supplied in round stranded (rm) or compacted circular stranded (cm) conductor shape

Standard Packing

1.5 - 150 sqmm supplied in wooden drum @ 1000 m
185 sqmm and above will be supplied in wooden drum on available length
Length Tolerance per drum $\pm 1.5\%$

Minimum Bending radius fixed installation

Multi cores : $18 \times D$
D is overall diameter of cable

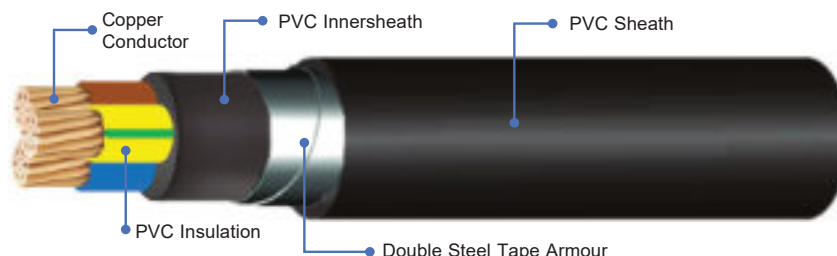
Construction Data

Nom. Cross Sect.	mm ²	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
Overall diameter (Approx.)	mm	14.0	14.0	15.0	16.0	18.0	20.0	22.5	24.5	28.0	31.5	36.5	41.0	45.0	49.5	55.5	61.0
Bending radius	mm	252	252	270	288	324	360	405	441	504	567	657	738	810	891	999	1098
Cable Weight (Approx.)	kg/km	298	317	382	454	598	777	1077	1353	1660	2206	2960	3955	4758	5813	7349	9001

Electrical Data

Nom. Cross Sect.	Conductor		Current-Carrying Capacity at 30°C		Inductance	Short circuit current at 1 sec Max.
	DC Resistance at 20°C Max.	AC Resistance at 70°C Max.	in air Max.	in ground Max.		
(mm ²)	(Ω /km)	(Ω /km)	(A)	(A)	(mH/km)	(kA)
1.5	12.1	14.5	23	27	0.329	0.17
2.5	7.41	8.87	31	36	0.306	0.29
4	4.61	5.52	41	48	0.305	0.46
6	3.08	3.69	52	60	0.289	0.69
10	1.83	2.19	71	81	0.270	1.15
16	1.15	1.38	94	106	0.256	1.84
25	0.727	0.870	125	136	0.257	2.88
35	0.524	0.627	153	164	0.248	4.03
50	0.387	0.464	185	194	0.248	5.75
70	0.268	0.321	233	239	0.239	8.05
95	0.193	0.232	283	284	0.238	10.93
120	0.153	0.184	332	326	0.233	13.80
150	0.124	0.150	378	365	0.233	17.25
185	0.0991	0.121	432	410	0.234	21.28
240	0.0754	0.0930	509	474	0.232	27.60
300	0.0601	0.0754	579	531	0.231	34.50

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NYBY 3 x (1.5 - 300) mm²
Cu / PVC / DSTA / PVC
(Copper Conductor, PVC Insulated, Double Galvanized Steel Tape Armor, PVC Sheathed)
Standard Specification : SNI IEC 60502-1

APPLICATION :

For industry installations, switchgear, and power station, if there is a risk that low mechanical damage may occur. Installation indoors, cable channels and in ground.

Special Features on Request

- Flame Retardant Non Category
- Flame Retardant Cat. A, B, C
- Heat Resistance
- Oil Resistance
- UV Resistance
- Anti Termite
- Anti Rodent

Note :
Conductor Shaped

1.5 - 10 sqmm supplied in solid (re) or round stranded (rm)

conductor shape

16 sqmm supplied in round stranded (rm) conductor shape

25 - 300 sqmm supplied in round stranded (rm) or compacted circular stranded (cm) conductor shape

50 - 300 sqmm supplied sector shaped stranded (sm) conductor

Standard Packing

1.5 - 120 sqmm supplied in wooden drum @ 1000 m

150 sqmm and above will be supplied in wooden drum on available length

Length Tolerance per drum $\pm 1.5\%$

Minimum Bending radius fixed installation

Multi cores : $18 \times D$

D is overall diameter of cable

Construction Data

Nom. Cross Sect.	mm ²	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
Overall diameter (Approx.)	mm	14.0	14.5	15.5	17.0	19.0	21.0	24.0	26.0	30.0	34.5	40.0	43.5	48.5	53.0	59.5	65.0
Bending radius	mm	252	261	279	306	342	378	432	468	540	621	720	783	873	954	1071	1170
Cable Weight (Approx.)	kg/km	306	333	439	531	715	947	1334	1699	1997	2697	3969	4733	5758	7037	9004	10951

Electrical Data

Nom. Cross Sect.	Conductor		Current-Carrying Capacity at 30°C		Inductance	Short circuit current at 1 sec Max.
	DC Resistance at 20°C Max.	AC Resistance at 70°C Max.	in air Max.	in ground Max.		
(mm ²)	(Ω /km)	(Ω /km)	(A)	(A)	(mH/km)	(kA)
1.5	12.1	14.5	20	24	0.329	0.17
2.5	7.41	8.87	26	31	0.306	0.29
4	4.61	5.52	35	41	0.305	0.46
6	3.08	3.69	44	51	0.289	0.69
10	1.83	2.19	60	68	0.270	1.15
16	1.15	1.38	80	89	0.256	1.84
25	0.727	0.870	107	115	0.257	2.88
35	0.524	0.627	131	139	0.248	4.03
50	0.387	0.464	164	170	0.248	5.75
70	0.268	0.321	205	208	0.239	8.05
95	0.193	0.232	252	249	0.238	10.93
120	0.153	0.184	292	284	0.233	13.80
150	0.124	0.150	334	318	0.233	17.25
185	0.0991	0.121	385	359	0.234	21.28
240	0.0754	0.0930	454	415	0.232	27.60
300	0.0601	0.0754	521	466	0.231	34.50

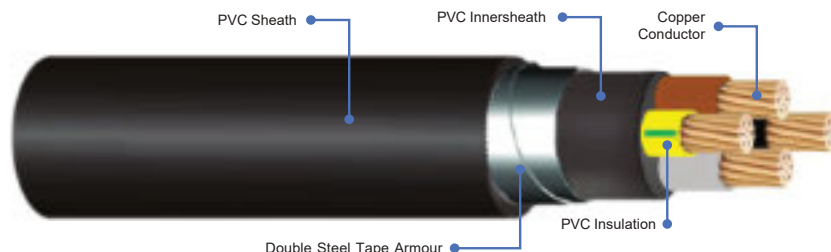
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NYBY 4 x (1.5 - 300) mm²

Cu / PVC / DSTA / PVC

(Copper Conductor, PVC Insulated, Double Galvanized Steel Tape Armor, PVC Sheathed)

Standard Specification : SNI IEC 60502-1



APPLICATION :

For industry installations, switchgear, and power station, if there is a risk that low mechanical damage may occur. Installation indoors, cable channels and in ground

Special Features on Request

- Flame Retardant Non Category
- Flame Retardant Cat. A, B, C
- Heat Resistance
- Oil Resistance
- UV Resistance
- Anti Termite
- Anti Rodent

Note :

Conductor Shaped

1.5 - 10 sqmm supplied in solid (re) or round stranded (rm) conductor shape
16 sqmm supplied in round stranded (rm) conductor shape
25 - 300 sqmm supplied in round stranded (rm) or compacted circular stranded (cm) conductor shape
50 - 300 sqmm supplied sector shaped stranded (sm) conductor

Standard Packing

1.5 - 70 sqmm supplied in wooden drum @ 1000 m
120 sqmm and above will be supplied in wooden drum on available length
Length Tolerance per drum $\pm 1.5\%$

Minimum Bending radius fixed installation

Multi cores : $18 \times D$
D is overall diameter of cable

Construction Data

Nom.Cross Sect.	mm ²	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
Overall diameter (Approx.)	mm	14.0	15.5	17.0	18.0	20.5	23.0	26.0	28.5	33.5	39.0	44.0	48.5	53.5	58.5	66.0	72.5
Bending radius	mm	252	279	306	324	369	414	468	513	603	702	792	873	963	1053	1188	1305
Cable Weight (Approx.)	kg/km	315	377	515	629	868	1169	1656	2123	2629	3865	5119	6182	7554	9188	11737	14331

Electrical Data

Nom. Cross Sect.	Conductor		Current-Carrying Capacity at 30°C		Inductance	Short circuit current at 1 sec Max.
	DC Resistance at 20°C Max.	AC Resistance at 70°C Max.	in air Max.	in ground Max.		
(mm ²)	(Ω /km)	(Ω /km)	(A)	(A)	(mH/km)	(kA)
1.5	12.1	14.5	22	27	0.329	0.17
2.5	7.41	8.87	30	36	0.306	0.29
4	4.61	5.52	40	47	0.305	0.46
6	3.08	3.69	51	58	0.289	0.69
10	1.83	2.19	69	78	0.270	1.15
16	1.15	1.38	92	101	0.256	1.84
25	0.727	0.870	124	131	0.257	2.88
35	0.524	0.627	152	157	0.248	4.03
50	0.387	0.464	175	176	0.248	5.75
70	0.268	0.321	221	216	0.239	8.05
95	0.193	0.232	272	258	0.238	10.93
120	0.153	0.184	315	293	0.233	13.80
150	0.124	0.150	364	331	0.233	17.25
185	0.0991	0.121	413	371	0.234	21.28
240	0.0754	0.0930	489	429	0.232	27.60
300	0.0601	0.0754	560	482	0.231	34.50

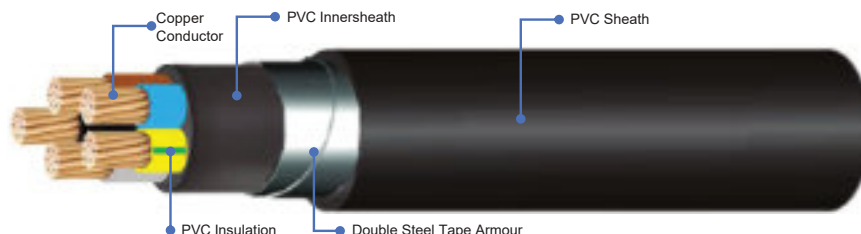
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NYBY 4 x (1.5 - 50) mm²

Cu / PVC / DSTA / PVC

(Copper Conductor, PVC Insulated, Double Galvanized Steel Tape Armor, PVC Sheathed)

Standard Specification : SNI IEC 60502-1



APPLICATION :

For industry installations, switchgear, and power station, if there is a risk that low mechanical damage may occur. Installation indoors, cable channels and in ground.

Special Features on Request

- Flame Retardant Non Category
- Flame Retardant Cat. A, B, C
- Heat Resistance
- Oil Resistance
- UV Resistance
- Anti Termite
- Anti Rodent

Note :

Conductor Shaped

1.5 - 10 sqmm supplied in solid (re) or round stranded (rm) conductor shape
16 sqmm supplied in round stranded (rm) conductor shape
25 - 50 sqmm supplied in round stranded (rm) or compacted circular stranded (cm) conductor shape

Standard Packing

1.5 - 50 sqmm supplied in wooden drum @ 1000 m
Length Tolerance per drum $\pm 1.5\%$

Minimum Bending radius fixed installation

Multi cores : $18 \times D$
D is overall diameter of cable

Construction Data

Nom.Cross Sect.	mm ²	1.5	2.5	4	6	10	16	25	35	50
Overall diameter (Approx.)	mm	14.5	16.5	18.0	19.5	22.0	25.0	28.5	31.5	36.5
Bending radius	mm	261	297	324	351	396	450	513	567	657
Cable Weight (Approx.)	kg/km	355	440	608	749	1040	1404	2004	2596	3338

Electrical Data

Nom. Cross Sect.	Conductor		Current-Carrying Capacity at 30°C		Inductance	Short circuit current at 1 sec Max.
	DC Resistance at 20°C Max.	AC Resistance at 70°C Max.	in air Max.	in ground Max.		
(mm ²)	(Ω /km)	(Ω /km)	(A)	(A)	(mH/km)	(kA)
1.5	12.1	14.5	23	28	0.329	0.17
2.5	7.41	8.87	31	36	0.306	0.29
4	4.61	5.52	42	48	0.305	0.46
6	3.08	3.69	53	59	0.289	0.69
10	1.83	2.19	72	79	0.270	1.15
16	1.15	1.38	95	103	0.256	1.84
25	0.727	0.870	129	133	0.257	2.88
35	0.524	0.627	158	159	0.248	4.03
50	0.387	0.464	192	187	0.241	5.75

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

N2XY 1 x (1.5 - 630) mm²

Cu / XLPE / PVC

(Copper Conductor, XLPE Insulated, PVC Sheathed)

Standard Specification : SNI IEC 60502-1



APPLICATION :

Power cable : Indoors, cable trunking, outdoors and buried in the ground, for power stations, industry and switchgear as well as for urban supply networks, if mechanical damage is unlikely.

Special Features on Request

- Flame Retardant Non Category
- Flame Retardant Cat. A, B, C
- Heat Resistance
- Oil Resistance
- UV Resistance
- Anti Termite
- Anti Rodent

Standard Packing

1.5 - 10 sqmm supplied in coil @ 100 m

16 - 400 sqmm supplied in wooden drum @ 1000 m

500 sqmm and above will be supplied in wooden drum on available length

Length Tolerance per drum $\pm$ 1.5%

Note :

Conductor Shaped

1.5 - 10 sqmm supplied in solid (re) or circular stranded (rm) conductor shape
16 sqmm supplied in non compact circular stranded (rm) conductor shape
25 - 500 sqmm supplied in non compact circular stranded (rm) or compacted circular stranded (cm) conductor shape

Minimum Bending radius fixed installation

Single core : 12 x D

D is overall diameter of cable

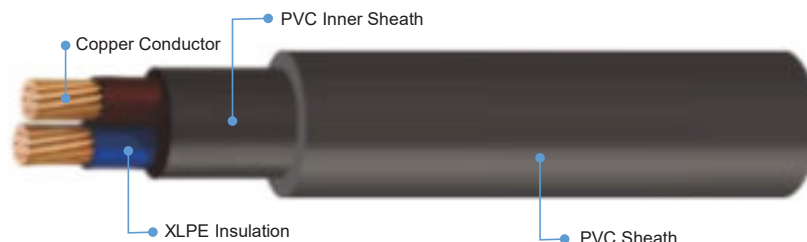
Construction Data

Nom.Cross Sect.	mm ²	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240	300	400	500	630
Overall diameter (Approx.)	mm	6.0	6.5	7.0	7.5	8.5	9.5	11.0	12.0	14.0	15.5	18.0	20.0	21.5	24.0	27.0	29.5	33.5	37.5	42.0
Bending radius	mm	72	78	84	90	102	114	132	144	168	186	216	240	258	288	324	354	402	450	504
Cable Weight (Approx.)	kg/km	48	61	80	101	146	206	313	408	552	754	1005	1242	1516	1915	2501	3035	3887	4975	6470

Electrical Data

Conductor			Current-Carrying Capacity at 30°C				Inductance		Short circuit current at 1 sec Max.
Nom. Cross Sect.	DC Resistance at 20°C Max.	AC Resistance at 90°C Max.					Trefoil formation 	Flat formation 	
			in air Max.	in ground Max.	in air Max.	in ground Max.			
(mm ²)	(Ω/km)	(Ω/km)	(A)	(A)	(A)	(A)	(mH/km)	(mH/km)	(kA)
1.5	12.1	15.4	30	38	30	38	0.448	0.494	0.21
2.5	7.41	9.45	40	52	40	52	0.415	0.461	0.36
4	4.61	5.88	53	66	53	66	0.385	0.431	0.57
6	3.08	3.93	66	88	66	88	0.361	0.408	0.86
10	1.83	2.33	92	112	92	112	0.333	0.379	1.43
16	1.15	1.47	105	120	115	123	0.310	0.357	2.29
25	0.727	0.927	142	153	155	158	0.298	0.344	3.58
35	0.524	0.668	174	183	195	189	0.285	0.331	5.01
50	0.387	0.494	214	217	235	225	0.276	0.322	7.15
70	0.268	0.342	272	266	298	275	0.266	0.313	10.01
95	0.193	0.247	337	318	367	332	0.261	0.307	13.59
120	0.153	0.196	394	361	430	378	0.256	0.302	17.16
150	0.124	0.160	453	405	494	429	0.254	0.300	21.45
185	0.0991	0.128	529	457	562	480	0.253	0.299	26.46
240	0.0754	0.099	633	530	677	522	0.249	0.295	34.32
300	0.0601	0.080	732	596	781	634	0.245	0.291	42.90
400	0.0470	0.064	852	674	941	725	0.244	0.290	57.20
500	0.0366	0.052	990	761	1102	838	0.241	0.288	71.50
630	0.0283	0.043	1147	853	1185	838	0.239	0.285	90.09

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

N2XY 2 x (1.5 - 300) mm²
Cu / XLPE / PVC
(Copper Conductor, XLPE Insulated, PVC Sheathed)
Standard Specification : SNI IEC 60502-1

APPLICATION :

Power cable : Indoors, cable trunking, outdoors and buried in the ground, for power stations, industry and switchgear as well as for urban supply networks, if mechanical damage is unlikely.

Special Features on Request

- Flame Retardant Non Category
- Flame Retardant Cat. A, B, C
- Heat Resistance
- Oil Resistance
- UV Resistance
- Anti Termite
- Anti Rodent

Standard Packing

1.5 - 150 sqmm supplied in wooden drum @ 1000 m
185 sqmm and above will be supplied in wooden drum on available length
Length Tolerance per drum $\pm 1.5\%$

Note :
Conductor Shaped

1.5 - 10 sqmm supplied in solid (re) or circular stranded (rm)
conductor shape
16 sqmm supplied in non compact circular stranded (rm)
conductor shape
25 - 300 sqmm supplied in non compact circular stranded (rm) or compacted circular stranded (cm) conductor shape

Minimum Bending radius fixed installation

Multi core : 12 x D
D is overall diameter of cable

Construction Data

Nom.Cross Sect.	mm ²	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
Overall diameter (Approx.)	mm	12.0	13.0	13.5	14.5	16.5	18.5	21.0	23.0	26.5	30.0	34.0	37.5	41.5	46.0	51.5	57.0
Bending radius	mm	144	156	162	174	198	222	252	276	318	360	408	450	498	552	618	684
Cable Weight (Approx.)	kg/km	181	222	277	342	471	635	906	1172	1409	1927	2586	3178	3889	4863	6209	7688

Electrical Data

Nom. Cross Sect.	Conductor		Current-Carrying Capacity at 30°C		Inductance	Short circuit current at 1 sec Max.
	DC Resistance at 20°C Max.	AC Resistance at 90°C Max.	in air Max.	in ground Max.		
(mm ²)	(Ω /km)	(Ω /km)	(A)	(A)	(mH/km)	(kA)
1.5	12.1	15.4	29	34	0.316	0.21
2.5	7.41	9.45	38	44	0.295	0.36
4	4.61	5.88	50	58	0.277	0.57
6	3.08	3.93	64	73	0.264	0.86
10	1.83	2.33	88	98	0.249	1.43
16	1.15	1.47	117	129	0.238	2.29
25	0.727	0.927	155	166	0.242	3.58
35	0.524	0.668	191	200	0.235	5.01
50	0.387	0.494	231	237	0.233	7.15
70	0.268	0.342	293	293	0.229	10.01
95	0.193	0.247	358	350	0.224	13.59
120	0.153	0.196	416	399	0.223	17.16
150	0.124	0.160	476	447	0.224	21.45
185	0.0991	0.128	547	505	0.225	26.46
240	0.0754	0.099	647	585	0.223	34.32
300	0.0601	0.080	741	657	0.221	42.90

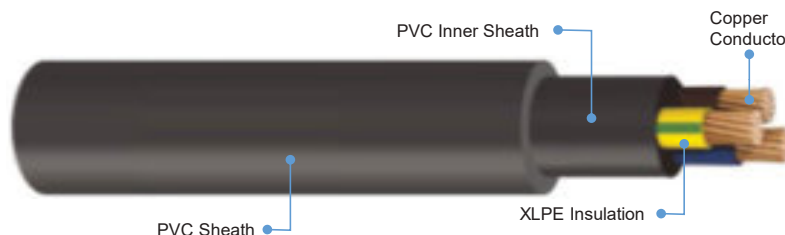
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

N2XY 3 x (1.5 - 300) mm²

Cu / XLPE / PVC

(Copper Conductor, XLPE Insulated, PVC Sheathed)

Standard Specification : SNI IEC 60502-1



APPLICATION :

Power cable : Indoors, cable trunking, outdoors and buried in the ground, for power stations, industry and switchgear as well as for urban supply networks, if mechanical damage is unlikely.

Special Features on Request

- Flame Retardant Non Category
- Flame Retardant Cat. A, B, C
- Heat Resistance
- Oil Resistance
- UV Resistance
- Anti Termite
- Anti Rodent

Note :

Conductor Shaped

1.5 - 10 sqmm supplied in solid (re) or circular stranded (rm) conductor shape
16 sqmm supplied in non compact circular stranded (rm) conductor shape
25 - 35 sqmm supplied in compacted circular stranded (cm) conductor shape
50 - 300 sqmm supplied in compacted circular stranded or sector shaped stranded (sm) conductor

Standard Packing

1.5 - 120 sqmm supplied in wooden drum @ 1000 m
150 sqmm and above will be supplied in wooden drum on available length
Length Tolerance per drum $\pm 1.5\%$

Minimum Bending radius fixed installation

Multi core : $12 \times D$
D is overall diameter of cable

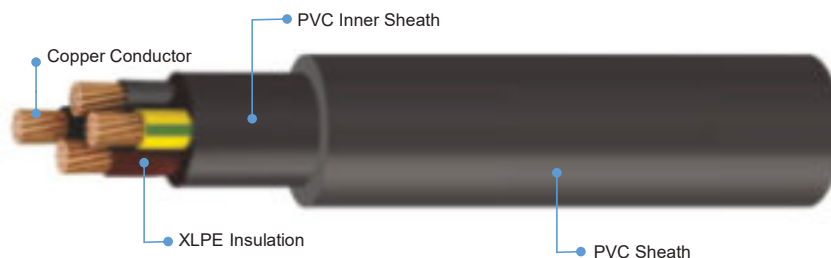
Construction Data

Nom.Cross Sect.	mm ²	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
Overall diameter (Approx.)	mm	12.0	14.0	14.0	15.5	17.5	19.5	22.5	24.5	28.0	32.5	36.0	40.0	45.0	49.5	55.5	61.0
Bending radius	mm	144	168	168	186	210	234	270	294	336	390	432	480	540	594	666	732
Cable Weight (Approx.)	kg/km	202	251	322	403	569	781	1138	1481	1696	2379	3164	3890	4824	5964	7743	9532

Electrical Data

Nom. Cross Sect.	Conductor		Current-Carrying Capacity at 30°C		Inductance	Short circuit current at 1 sec Max.
	DC Resistance at 20°C Max.	AC Resistance at 90°C Max.	in air Max.	in ground Max.		
(mm ²)	(Ω /km)	(Ω /km)	(A)	(A)	(mH/km)	(kA)
1.5	12.1	15.4	21	28	0.316	0.21
2.5	7.41	9.45	32	37	0.295	0.36
4	4.61	5.88	43	49	0.277	0.57
6	3.08	3.93	54	61	0.264	0.86
10	1.83	2.33	74	83	0.249	1.43
16	1.15	1.47	99	108	0.238	2.29
25	0.727	0.927	132	140	0.242	3.58
35	0.524	0.668	163	168	0.235	5.01
50	0.387	0.494	201	204	0.233	7.15
70	0.268	0.342	253	249	0.229	10.01
95	0.193	0.247	311	299	0.224	13.59
120	0.153	0.196	361	341	0.223	17.16
150	0.124	0.160	413	381	0.224	21.45
185	0.0991	0.128	477	432	0.225	26.46
240	0.0754	0.099	565	499	0.223	34.32
300	0.0601	0.080	648	563	0.221	42.90

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

N2XY 4 x (1.5 - 300) mm²
Cu / XLPE / PVC
(Copper Conductor, XLPE Insulated, PVC Sheathed)
Standard Specification : SNI IEC 60502-1

APPLICATION :

Power cable : Indoors, cable trunking, outdoors and buried in the ground, for power stations, industry and switchgear as well as for urban supply networks, if mechanical damage is unlikely.

Special Features on Request

- Flame Retardant Non Category
- Flame Retardant Cat. A, B, C
- Heat Resistance
- Oil Resistance
- UV Resistance
- Anti Termite
- Anti Rodent

Note :
Conductor Shaped

1.5 - 10 sqmm supplied in solid (re) or circular stranded (rm) conductor shape
 16 sqmm supplied in non compact circular stranded (rm) conductor shape
 25 - 35 sqmm supplied in compacted circular stranded (cm) conductor shape
 50 - 300 sqmm supplied in compacted circular stranded or sector shaped stranded (sm) conductor

Standard Packing

1.5 - 95 sqmm supplied in wooden drum @ 1000 m
 120 sqmm and above will be supplied in wooden drum on available length
 Length Tolerance per drum $\pm 1.5\%$

Minimum Bending radius fixed installation

Multi core : 12 x D

D is overall diameter of cable

Construction Data

Nom. Cross Sect.	mm ²	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
Overall diameter (Approx.)	mm	13.0	14.5	15.5	16.5	19.0	21.5	24.5	27.0	30.5	36.0	40.0	45.0	49.5	54.5	61.5	67.5
Bending radius	mm	156	174	186	198	228	258	294	324	366	432	480	540	594	654	738	810
Cable Weight (Approx.)	kg/km	231	292	380	481	696	972	1420	1862	2215	3101	4143	5174	6363	7851	10196	12558

Electrical Data

Conductor			Current-Carrying Capacity at 30°C		Inductance	Short circuit current at 1 sec Max.
Nom. Cross Sect.	DC Resistance at 20°C Max.	AC Resistance at 90°C Max.				
			in air Max.	in ground Max.		
(mm ²)	(< /km)	(< /km)	(A)	(A)	(mH/km)	(kA)
1.5	12.1	15.4	27	31	0.316	0.21
2.5	7.41	9.45	35	41	0.295	0.36
4	4.61	5.88	47	53	0.277	0.57
6	3.08	3.93	59	67	0.264	0.86
10	1.83	2.33	81	89	0.249	1.43
16	1.15	1.47	109	117	0.238	2.29
25	0.727	0.927	147	152	0.242	3.58
35	0.524	0.668	181	182	0.235	5.01
50	0.387	0.494	213	209	0.233	7.15
70	0.268	0.342	266	255	0.229	10.01
95	0.193	0.247	329	307	0.224	13.59
120	0.153	0.196	381	349	0.223	17.16
150	0.124	0.160	444	394	0.224	21.45
185	0.0991	0.128	507	443	0.225	26.46
240	0.0754	0.099	600	514	0.223	34.32
300	0.0601	0.080	688	579	0.221	42.90

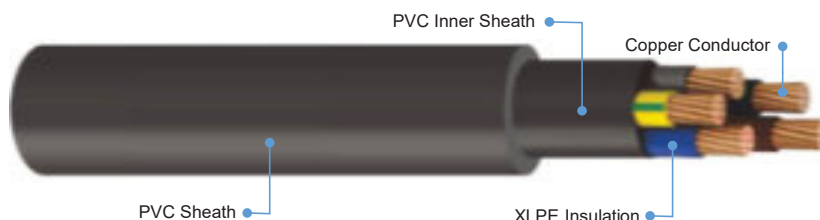
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

N2XY 5 x (1.5 - 50) mm²

Cu / XLPE / PVC

(Copper Conductor, XLPE Insulated, PVC Sheathed)

Standard Specification : SNI IEC 60502-1



APPLICATION :

Power cable : Indoors, cable trunking, outdoors and buried in the ground, for power stations, industry and switchgear as well as for urban supply networks, if mechanical damage is unlikely.

Special Features on Request

- Flame Retardant Non Category
- Flame Retardant Cat. A, B, C
- Heat Resistance
- Oil Resistance
- UV Resistance
- Anti Termite
- Anti Rodent

Note :

Conductor Shaped

1.5 - 10 sqmm supplied in solid (re) or circular stranded (rm)

conductor shape

16 sqmm supplied in non compact circular stranded (rm) conductor shape

25 - 50 sqmm supplied in compacted circular stranded (cm) conductor shape

Standard Packing

1.5 - 50 sqmm supplied in wooden drum @ 1000 m

Length Tolerance per drum $\pm 1.5\%$

Minimum Bending radius fixed installation

Multi core : $12 \times D$

D is overall diameter of cable

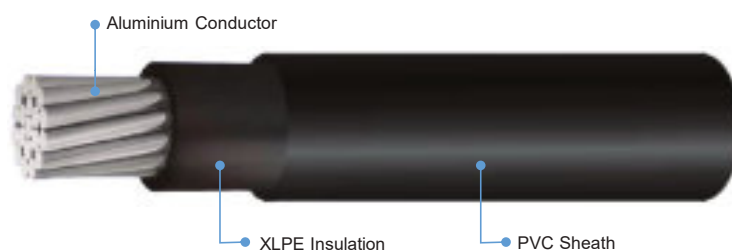
Construction Data

Nom. Cross Sect.	mm ²	1.5	2.5	4	6	10	16	25	35	50
Overall diameter (Approx.)	mm	14.0	16.0	16.5	18.0	20.5	23.0	26.5	29.5	34.0
Bending radius	mm	168	192	198	216	246	276	318	354	408
Cable Weight (Approx.)	kg/km	267	343	450	575	833	1173	1726	2270	2913

Electrical Data

Nom. Cross Sect.	Conductor		Current-Carrying Capacity at 30°C		Inductance	Short circuit current at 1 sec Max.
	DC Resistance at 20°C Max.	AC Resistance at 90°C Max.	in air Max.	in ground Max.		
(mm ²)	(Ω /km)	(Ω /km)	(A)	(A)	(mH/km)	(kA)
1.5	12.1	15.4	27	32	0.316	0.21
2.5	7.41	9.45	36	42	0.295	0.36
4	4.61	5.88	48	54	0.277	0.57
6	3.08	3.93	61	68	0.264	0.86
10	1.83	2.33	84	91	0.249	1.43
16	1.15	1.47	113	119	0.238	2.29
25	0.727	0.927	153	154	0.242	3.58
35	0.524	0.668	188	185	0.235	5.01
50	0.387	0.494	228	218	0.233	7.15

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NA2XY 1 x (10 - 630) mm²
Al / XLPE / PVC
(Aluminium Conductor, XLPE Insulated, PVC Sheathed)
Standard Specification : SNI IEC 60502-1

APPLICATION :

Power cable : Indoors, cable trunking, outdoors and buried in the ground, for power stations, industry and switchgear as well as for urban supply networks, if mechanical damage is unlikely.

Special Features on Request

- Flame Retardant Non Category
- Flame Retardant Cat. A, B, C
- Heat Resistance
- Oil Resistance
- UV Resistance
- Anti Termite
- Anti Rodent

Note :
Conductor Shaped

10 - 16 sqmm supplied in non compact circular stranded (rm)

conductor shape

25 - 630 sqmm supplied in non compact circular stranded (rm) or compacted circular stranded (cm) conductor shape

Standard Packing

10 - 400 sqmm supplied in wooden drum @ 1000 m

500 sqmm and above will be supplied in wooden drum on available length

 Length Tolerance per drum $\pm 1.5\%$
Minimum Bending radius fixed installation

 Single core : $12 \times D$

D is overall diameter of cable

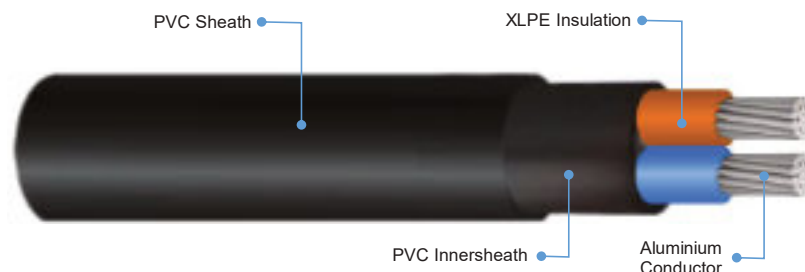
Construction Data

Nom. Cross Sect.	mm ²	10	16	25	35	50	70	95	120	150	185	240	300	400	500	630
Overall diameter (Approx.)	mm	8.5	9.5	11.0	12.0	14.0	15.5	18.0	20.0	21.5	24.0	27.0	29.5	33.5	37.5	42.0
Bending radius	mm	102	114	132	144	168	186	216	240	258	288	324	354	402	450	504
Cable Weight (Approx.)	kg/km	84	112	155	195	256	333	423	497	635	778	1007	1207	1694	1980	2470

Electrical Data

Nom. Cross Sect.	Conductor		Current-Carrying Capacity at 30°C				Inductance		Short circuit current at 1 sec Max.
	DC Resistance at 20°C Max.	AC Resistance at 90°C Max.	in air		in ground		Trefoil formation	Flat formation	
			Max.	Max.	Max.	Max.	(mH/km)	(mH/km)	
(mm ²)	(Ω /km)	(Ω /km)	(A)	(A)	(A)	(A)	(mH/km)	(mH/km)	(kA)
10	3.08	3.95	60	71	62	70	0.333	0.379	0.94
16	1.91	2.45	84	92	84	91	0.310	0.357	1.50
25	1.20	1.539	112	119	113	118	0.298	0.344	2.35
35	0.868	1.113	138	142	139	141	0.285	0.331	3.29
50	0.641	0.822	170	168	171	166	0.276	0.322	4.70
70	0.443	0.568	218	207	219	204	0.266	0.313	6.58
95	0.320	0.411	269	247	270	243	0.261	0.307	8.93
120	0.253	0.325	312	280	314	276	0.256	0.302	11.28
150	0.206	0.265	360	315	366	310	0.254	0.300	14.10
185	0.164	0.212	425	357	426	351	0.253	0.299	17.39
240	0.125	0.162	510	414	512	408	0.249	0.295	22.56
300	0.1	0.130	590	468	593	461	0.245	0.291	28.20
400	0.0778	0.103	710	539	714	530	0.244	0.290	37.60
500	0.0605	0.081	820	612	827	602	0.241	0.288	47.00
630	0.0469	0.065	936	696	968	684	0.239	0.285	59.22

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NA2XY 2 x (10 - 300) mm²
Al / XLPE / PVC
(Aluminium Conductor, XLPE Insulated, PVC Sheathed)
Standard Specification : SNI IEC 60502-1

APPLICATION :

Power cable : Indoors, cable trunking, outdoors and buried in the ground, for power stations, industry and switchgear as well as for urban supply networks, if mechanical damage is unlikely.

Special Features on Request

- Flame Retardant Non Category
- Flame Retardant Cat. A, B, C
- Heat Resistance
- Oil Resistance
- UV Resistance
- Anti Termite
- Anti Rodent

Standard Packing

10 - 150 sqmm supplied in wooden drum @ 1000 m
185 sqmm and above will be supplied in wooden drum on available length

Length Tolerance per drum $\pm 1.5\%$

Note :
Conductor Shaped

10 - 16 sqmm supplied in non compact circular stranded (rm) conductor shape
25 - 300 sqmm supplied in non compact circular stranded (rm) or compacted circular stranded (cm) conductor shape

Minimum Bending radius fixed installation

Multi core : $12 \times D$

D is overall diameter of cable

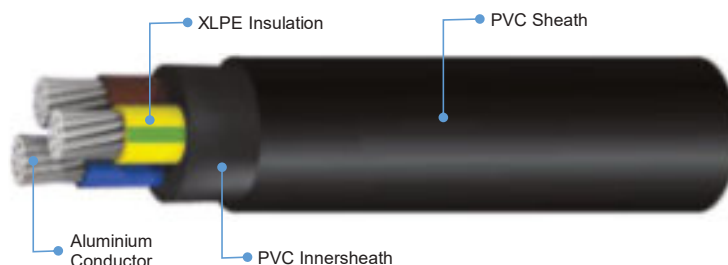
Construction Data

Nom.Cross Sect.	mm ²	10	16	25	35	50	70	95	120	150	185	240	300
Overall diameter (Approx.)	mm	16.5	18.5	21.0	23.0	26.5	30.0	34.0	37.5	41.5	46.0	51.5	57.0
Bending radius	mm	198	222	252	276	318	360	408	450	498	552	618	684
Cable Weight (Approx.)	kg/km	345	457	583	730	831	1091	1431	1732	2037	2592	3207	3938

Electrical Data

Nom. Cross Sect.	Conductor		Current-Carrying Capacity at 30°C		Inductance	Short circuit current at 1 sec Max.
	DC Resistance at 20°C Max.	AC Resistance at 90°C Max.	in air Max.	in ground Max.		
(mm ²)	(Ω/km)	(Ω/km)	(A)	(A)	(mH/km)	(kA)
10	3.08	3.95	68	76	0.249	0.94
16	1.91	2.45	91	100	0.238	1.50
25	1.20	1.54	119	128	0.242	2.35
35	0.868	1.11	147	155	0.235	3.29
50	0.641	0.822	179	184	0.233	4.70
70	0.443	0.568	228	228	0.229	6.58
95	0.320	0.411	279	272	0.224	8.93
120	0.253	0.325	324	310	0.223	11.28
150	0.206	0.265	366	346	0.224	14.10
185	0.164	0.212	427	393	0.225	17.39
240	0.125	0.162	504	456	0.223	22.56
300	0.100	0.130	577	514	0.221	28.20

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NA2XY 3 x (10 - 300) mm²
Al / XLPE / PVC
(Aluminium Conductor, XLPE Insulated, PVC Sheathed)
Standard Specification : SNI IEC 60502-1

APPLICATION :

Power cable : Indoors, cable trunking, outdoors and buried in the ground, for power stations, industry and switchgear as well as for urban supply networks, if mechanical damage is unlikely.

Special Features on Request

- Flame Retardant Non Category
- Flame Retardant Cat. A, B, C
- Heat Resistance
- Oil Resistance
- UV Resistance
- Anti Termite
- Anti Rodent

Note :
Conductor Shaped

10 - 16 sqmm supplied in circular stranded (rm) conductor shape

25 - 35 sqmm supplied in compacted circular stranded (cm)

conductor shape

50 - 300 sqmm supplied in compacted circular stranded or

sector shaped stranded (sm) conductor

Standard Packing

10 - 120 sqmm supplied in wooden drum @ 1000 m

150 sqmm and above will be supplied in wooden drum on available length

Length Tolerance per drum $\pm 1.5\%$

Minimum Bending radius fixed installation

Multi core : $12 \times D$

D is overall diameter of cable

Construction Data

Nom.Cross Sect.	mm ²	10	16	25	35	50	70	95	120	150	185	240	300
Overall diameter (Approx.)	mm	17.5	19.5	22.5	24.5	28.0	32.5	36.0	40.0	45.0	49.5	55.5	61.0
Bending radius	mm	210	234	270	294	336	390	432	480	540	594	666	732
Cable Weight (Approx.)	kg/km	380	507	656	824	823	1125	1420	1714	2111	2574	3275	3958

Electrical Data

Nom. Cross Sect.	Conductor		Current-Carrying Capacity at 30°C		Inductance	Short circuit current at 1 sec Max.
	DC Resistance at 20°C Max.	AC Resistance at 90°C Max.	in air Max.	in ground Max.		
(mm ²)	(Ω /km)	(Ω /km)	(A)	(A)	(mH/km)	(kA)
10	3.08	3.95	57	64	0.249	0.94
16	1.91	2.45	78	84	0.238	1.50
25	1.20	1.54	102	108	0.242	2.35
35	0.868	1.11	125	130	0.235	3.29
50	0.641	0.822	156	158	0.233	4.70
70	0.443	0.568	196	194	0.229	6.58
95	0.320	0.411	241	232	0.224	8.93
120	0.253	0.325	280	265	0.223	11.28
150	0.206	0.265	320	296	0.224	14.10
185	0.164	0.212	372	337	0.225	17.39
240	0.125	0.162	441	390	0.223	22.56
300	0.100	0.130	508	441	0.221	28.20

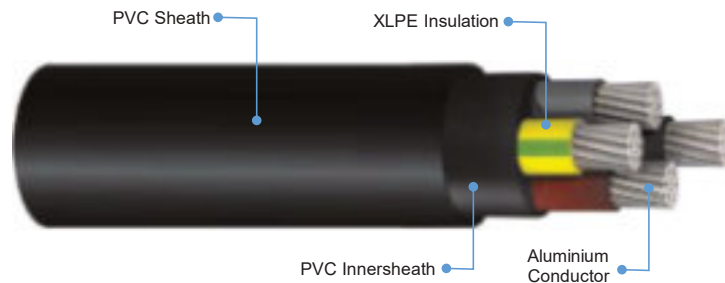
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NA2XY 4 x (10 - 300) mm²

Al / XLPE / PVC

(Aluminium Conductor, XLPE Insulated, PVC Sheathed)

Standard Specification : SNI IEC 60502-1



APPLICATION :

Power cable : Indoors, cable trunking, outdoors and buried in the ground, for power stations, industry and switchgear as well as for urban supply networks, if mechanical damage is unlikely.

Special Features on Request

- Flame Retardant Non Category
- Flame Retardant Cat. A, B, C
- Heat Resistance
- Oil Resistance
- UV Resistance
- Anti Termite
- Anti Rodent

Note :

Conductor Shaped

10 - 16 sqmm supplied in circular stranded (rm) conductor shape
25 - 35 sqmm supplied in compacted circular stranded (cm) conductor shape
50 - 300 sqmm supplied in compacted circular stranded or sector shaped stranded (sm) conductor

Standard Packing

1.5 - 95 sqmm supplied in wooden drum @ 1000 m
120 sqmm and above will be supplied in wooden drum on available length
Length Tolerance per drum $\pm 1.5\%$

Minimum Bending radius fixed installation

Multi core : 12 x D
D is overall diameter of cable

Construction Data

Nom.Cross Sect.	mm ²	10	16	25	35	50	70	95	120	150	185	240	300
Overall diameter (Approx.)	mm	19.0	21.5	24.5	27.0	30.5	36.0	40.0	45.0	49.5	54.5	61.5	67.5
Bending radius	mm	228	258	294	324	366	432	480	540	594	654	738	810
Cable Weight (Approx.)	kg/km	443	598	782	993	1057	1429	1818	2272	2745	3332	4238	5124

Electrical Data

Nom. Cross Sect.	Conductor		Current-Carrying Capacity at 30°C		Inductance	Short circuit current at 1 sec Max.
	DC Resistance at 20°C Max.	AC Resistance at 90°C Max.	in air Max.	in ground Max.		
(mm ²)	(Ω /km)	(Ω /km)	(A)	(A)	(mH/km)	(kA)
10	3.08	3.95	63	69	0.249	0.94
16	1.91	2.45	85	91	0.238	1.50
25	1.20	1.54	113	117	0.242	2.35
35	0.868	1.11	139	141	0.235	3.29
50	0.641	0.822	165	162	0.233	4.70
70	0.443	0.568	207	198	0.229	6.58
95	0.320	0.411	255	238	0.224	8.93
120	0.253	0.325	296	271	0.223	11.28
150	0.206	0.265	345	306	0.224	14.10
185	0.164	0.212	395	346	0.225	17.39
240	0.125	0.162	469	401	0.223	22.56
300	0.100	0.130	539	453	0.221	28.20

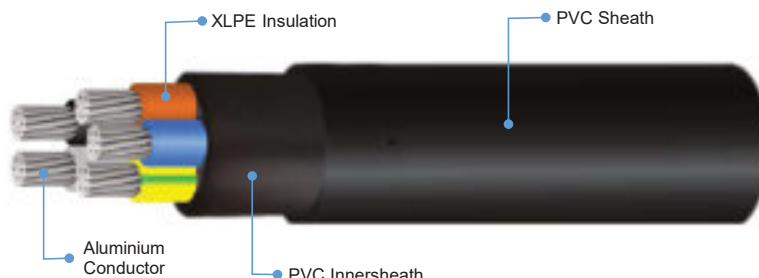
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

NA2XY 5 x (10 - 50) mm²

Al / XLPE / PVC

(Aluminium Conductor, XLPE Insulated, PVC Sheathed)

Standard Specification : SNI IEC 60502-1



APPLICATION :

Power cable : Indoors, cable trunking, outdoors and buried in the ground, for power stations, industry and switchgear as well as for urban supply networks, if mechanical damage is unlikely.

Special Features on Request

- Flame Retardant Non Category
- Flame Retardant Cat. A, B, C
- Heat Resistance
- Oil Resistance
- UV Resistance
- Anti Termite
- Anti Rodent

Note :

Conductor Shaped

10 - 16 sqmm supplied in non compact circular stranded (rm)
conductor shape
25 - 50 sqmm supplied in compacted circular stranded (cm)
conductor shape

Standard Packing

10 - 50 sqmm supplied in wooden drum @ 1000 m
Length Tolerance per drum $\pm$ 1.5%

Minimum Bending radius fixed installation

Multi core : 12 x D
D is overall diameter of cable

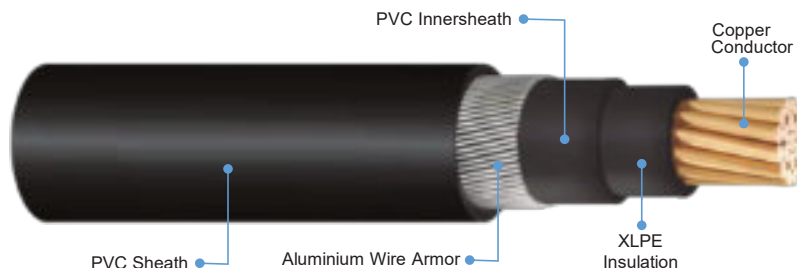
Construction Data

Nom.Cross Sect.	mm ²	10	16	25	35	50
Overall diameter (Approx.)	mm	20.5	23.0	26.5	29.5	34.0
Bending radius	mm	246	276	318	354	408
Cable Weight (Approx.)	kg/km	518	705	929	1185	1477

Electrical Data

Nom. Cross Sect.	Conductor		Current-Carrying Capacity at 30°C		Inductance	Short circuit current at 1 sec Max.
	DC Resistance at 20°C Max.	AC Resistance at 90°C Max.	in air Max.	in ground Max.		
(mm ²)	(Ω /km)	(Ω /km)	(A)	(A)	(mH/km)	(kA)
10	3.08	3.95	65	70	0.249	0.94
16	1.91	2.45	88	92	0.238	1.50
25	1.20	1.54	117	119	0.242	2.35
35	0.868	1.11	145	143	0.235	3.29
50	0.641	0.822	177	169	0.233	4.70

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

N2XR(AL)Y 1 x (25 - 630) mm²
Cu / XLPE / AWA / PVC
(Copper Conductor, XLPE Insulated, Aluminium Wire Armor, PVC Sheathed)
Standard Specification : SNI IEC 60502-1

APPLICATION :

For installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

Special Features on Request

- Flame Retardant Non Category
- Flame Retardant Cat. A, B, C
- Heat Resistance
- Oil Resistance
- UV Resistance
- Anti Termite
- Anti Rodent

Note :
Conductor Shaped

10 sqmm supplied in solid (re) or circular stranded (rm) conductor shape
16 sqmm supplied in non compact circular stranded (rm) conductor shape
25 - 630 sqmm supplied in non compact circular stranded (rm) or compacted circular stranded (cm) conductor shape

Standard Packing

10 - 300 sqmm supplied in wooden drum @ 1000 m
400 sqmm and above will be supplied in wooden drum on available length
Length Tolerance per drum $\pm 1.5\%$

Minimum Bending radius fixed installation

Single core : $16 \times D$
D is overall diameter of cable

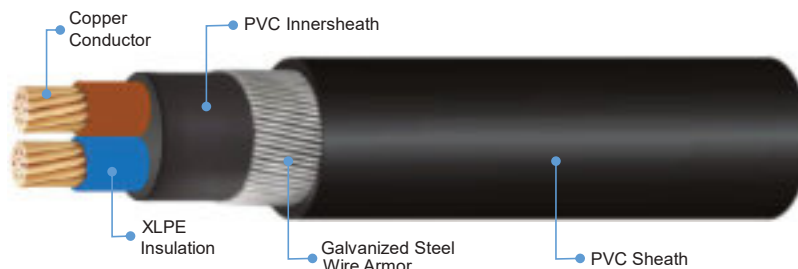
Construction Data

Nom.Cross Sect.	mm ²	25	35	50	70	95	120	150	185	240	300	400	500	630
Overall diameter (Approx.)	mm	16.0	17.0	18.5	20.0	22.0	24.0	26.0	28.0	30.5	33.0	37.5	41.5	46.0
Bending radius	mm	256	272	296	320	352	384	416	448	488	528	600	664	736
Cable Weight (Approx.)	kg/km	484	593	741	972	1243	1533	1834	2214	2813	3417	4403	5511	6960

Electrical Data

Conductor			Current-Carrying Capacity at 30°C				Inductance		Short circuit current at 1 sec Max.
Nom. Cross Sect.	DC Resistance at 20°C Max.	AC Resistance at 90°C Max.					Trefoil formation 	Flat formation 	
			in air Max.	in ground Max.	in air Max.	in ground Max.			
(mm²)	(Ω/km)	(Ω/km)	(A)	(A)	(A)	(A)	(mH/km)	(mH/km)	(kA)
25	0.727	0.927	159	155	163	159	0.384	0.431	3.58
35	0.524	0.668	193	185	198	190	0.365	0.412	5.01
50	0.387	0.494	234	219	240	225	0.349	0.396	7.15
70	0.268	0.342	293	267	302	274	0.331	0.378	10.01
95	0.193	0.247	359	320	368	327	0.316	0.363	13.59
120	0.153	0.196	417	362	426	369	0.311	0.357	17.16
150	0.124	0.160	474	404	483	418	0.304	0.351	21.45
185	0.0991	0.128	545	454	555	468	0.299	0.345	26.46
240	0.0754	0.099	642	521	660	538	0.290	0.336	34.32
300	0.0601	0.080	731	579	761	618	0.284	0.330	42.90
400	0.047	0.064	828	648	917	707	0.285	0.331	57.20
500	0.0366	0.052	962	737	1074	817	0.278	0.324	71.50
630	0.0283	0.043	1054	767	1029	741	0.271	0.318	90.09

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

N2XRY 2 x (1.5 - 300) mm²
Cu / XLPE / SWA / PVC
(Copper Conductor, XLPE Insulated, Galvanized Steel Wire Armor, PVC Sheathed)
Standard Specification : SNI IEC 60502-1

APPLICATION :

For installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

Special Features on Request

- Flame Retardant Non Category
- Flame Retardant Cat. A, B, C
- Heat Resistance
- Oil Resistance
- UV Resistance
- Anti Termite
- Anti Rodent

Standard Packing

1.5 - 150 sqmm supplied in wooden drum @ 1000 m
185 sqmm and above will be supplied in wooden drum on available length
Length Tolerance per drum $\pm 1.5\%$

Note :
Conductor Shaped

1.5 - 10 sqmm supplied in solid (re) or circular stranded (rm)
conductor shape
16 sqmm supplied in non compact circular stranded (rm)
conductor shape
25 - 300 sqmm supplied in non compact circular stranded (rm) or compacted circular stranded (cm) conductor shape

Minimum Bending radius fixed installation

Multi cores : $16 \times D$
D is overall diameter of cable

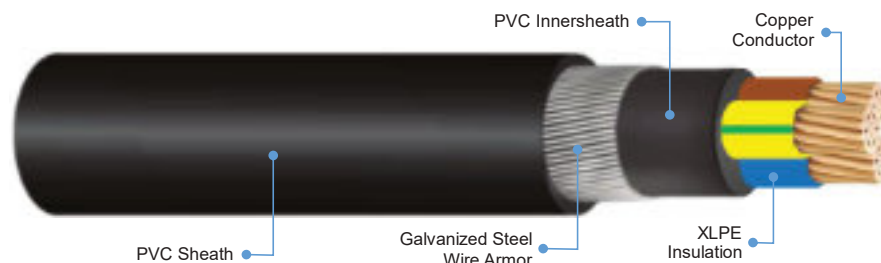
Construction Data

Nom.Cross Sect.	mm ²	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
Overall diameter (Approx.)	mm	13.5	14.5	15.0	16.0	18.5	21.0	24.0	26.0	29.0	33.5	38.0	41.5	45.5	51.5	57.0	62.5
Bending radius	mm	216	232	240	256	296	336	384	416	464	536	608	664	728	824	912	1000
Cable Weight (Approx.)	kg/km	329	402	450	527	783	998	1460	1759	2122	2755	3763	4493	5324	6906	8503	10189

Electrical Data

Nom. Cross Sect.	Conductor		Current-Carrying Capacity at 30°C		Inductance	Short circuit current at 1 sec Max.
	DC Resistance at 20°C Max.	AC Resistance at 90°C Max.	in air Max.	in ground Max.		
(mm ²)	(Ω /km)	(Ω /km)	(A)	(A)	(mH/km)	(kA)
1.5	12.1	15.4	30	35	0.316	0.21
2.5	7.41	9.45	40	46	0.295	0.36
4	4.61	5.88	53	60	0.277	0.57
6	3.08	3.93	67	75	0.264	0.86
10	1.83	2.33	92	102	0.249	1.43
16	1.15	1.47	123	132	0.238	2.29
25	0.727	0.927	163	170	0.242	3.58
35	0.524	0.668	200	205	0.235	5.01
50	0.387	0.494	241	242	0.233	7.15
70	0.268	0.342	304	296	0.229	10.01
95	0.193	0.247	371	355	0.224	13.59
120	0.153	0.196	429	402	0.223	17.16
150	0.124	0.160	488	449	0.224	21.45
185	0.0991	0.128	561	506	0.225	26.46
240	0.0754	0.099	658	582	0.223	34.32
300	0.0601	0.080	747	649	0.221	42.90

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

N2XRY 3 x (1.5 - 300) mm²
Cu / XLPE / SWA / PVC
(Copper Conductor, XLPE Insulated, Galvanized Steel Wire Armor, PVC Sheathed)
Standard Specification : SNI IEC 60502-1

APPLICATION :

For installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

Special Features on Request

- Flame Retardant Non Category
- Flame Retardant Cat. A, B, C
- Heat Resistance
- Oil Resistance
- UV Resistance
- Anti Termite
- Anti Rodent

Note :
Conductor Shaped

1.5 - 10 sqmm supplied in solid (re) or circular stranded (rm) conductor shape
16 sqmm supplied in non compact circular stranded (rm) conductor shape
25 - 35 sqmm supplied in compacted circular stranded (cm) conductor shape
50 - 300 sqmm supplied in compacted circular stranded or sector shaped stranded (sm) conductor

Standard Packing

1.5 - 95 sqmm supplied in wooden drum @ 1000 m
120 sqmm and above will be supplied in wooden drum on available length
Length Tolerance per drum $\pm 1.5\%$

Minimum Bending radius fixed installation

Multi cores : 16 x D
D is overall diameter of cable

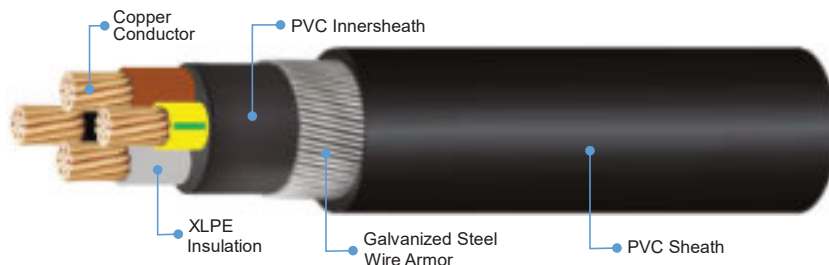
Construction Data

Nom.Cross Sect.	mm ²	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
Overall diameter (Approx.)	mm	13.5	15.5	15.5	17.0	19.5	22.0	25.5	27.5	31.0	36.5	40.5	44.0	50.5	54.5	61.0	66.5
Bending radius	mm	216	248	248	272	312	352	408	440	496	584	648	704	808	872	976	1064
Cable Weight (Approx.)	kg/km	355	441	502	596	897	1173	1720	2102	2602	3705	4702	5641	7242	8667	10904	13038

Electrical Data

Conductor			Current-Carrying Capacity at 30°C		Inductance	Short circuit current at 1 sec Max.
Nom. Cross Sect.	DC Resistance at 20°C Max.	AC Resistance at 90°C Max.	in air Max.	in ground Max.	(mH/km)	(kA)
(mm ²)	(Ω/km)	(Ω/km)	(A)	(A)	(mH/km)	(kA)
1.5	12.1	15.4	25	29	0.316	0.21
2.5	7.41	9.45	34	39	0.295	0.36
4	4.61	5.88	44	50	0.277	0.57
6	3.08	3.93	56	63	0.264	0.86
10	1.83	2.33	78	85	0.249	1.43
16	1.15	1.47	104	111	0.238	2.29
25	0.727	0.927	139	143	0.242	3.58
35	0.524	0.668	170	172	0.235	5.01
50	0.387	0.494	210	208	0.233	7.15
70	0.268	0.342	265	254	0.229	10.01
95	0.193	0.247	324	304	0.224	13.59
120	0.153	0.196	374	345	0.223	17.16
150	0.124	0.160	429	385	0.224	21.45
185	0.0991	0.128	492	434	0.225	26.46
240	0.0754	0.099	577	498	0.223	34.32
300	0.0601	0.080	656	557	0.221	42.90

Some information about rating factor for certain cable arrangement can be found on supplementary technical information

N2XRY 4 x (1.5 - 300) mm²
Cu / XLPE / SWA / PVC
(Copper Conductor, XLPE Insulated, Galvanized Steel Wire Armor, PVC Sheathed)
Standard Specification : SNI IEC 60502-1

APPLICATION :

For installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

Special Features on Request

- Flame Retardant Non Category
- Flame Retardant Cat. A, B, C
- Heat Resistance
- Oil Resistance
- UV Resistance
- Anti Termite
- Anti Rodent

Note :
Conductor Shaped

1.5 - 10 sqmm supplied in solid (re) or circular stranded (rm) conductor shape
16 sqmm supplied in non compact circular stranded (rm) conductor shape
25 - 35 sqmm supplied in compacted circular stranded (cm) conductor shape
50 - 300 sqmm supplied in compacted circular stranded or sector shaped stranded (sm) conductor

Standard Packing

1.5 - 70 sqmm supplied in wooden drum @ 1000 m
95 sqmm and above will be supplied in wooden drum on available length
Length Tolerance per drum $\pm 1.5\%$

Minimum Bending radius fixed installation

Multi cores : 16 x D
D is overall diameter of cable

Construction Data

Nom. Cross Sect.	mm ²	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
Overall diameter (Approx.)	mm	14.5	16.0	17.0	19.0	21.0	24.0	27.5	30.0	34.0	40.0	44.0	50.0	55.0	60.0	67.0	73.0
Bending radius	mm	232	256	272	304	336	384	440	480	544	640	704	800	880	960	1072	1168
Cable Weight (Approx.)	kg/km	398	497	572	793	1053	1528	2048	2556	3206	4585	5823	7533	8964	10786	13642	16400

Electrical Data

Nom. Cross Sect.	Conductor		Current-Carrying Capacity at 30°C		Inductance	Short circuit current at 1 sec Max.
	DC Resistance at 20°C Max.	AC Resistance at 90°C Max.	in air Max.	in ground Max.		
(mm ²)	(Ω /km)	(Ω /km)	(A)	(A)	(mH/km)	(kA)
1.5	12.1	15.4	28	33	0.316	0.21
2.5	7.41	9.45	37	43	0.295	0.36
4	4.61	5.88	49	55	0.277	0.57
6	3.08	3.93	63	69	0.264	0.86
10	1.83	2.33	86	92	0.249	1.43
16	1.15	1.47	116	121	0.238	2.29
25	0.727	0.927	155	156	0.242	3.58
35	0.524	0.668	190	186	0.235	5.01
50	0.387	0.494	221	213	0.233	7.15
70	0.268	0.342	278	259	0.229	10.01
95	0.193	0.247	341	311	0.224	13.59
120	0.153	0.196	396	352	0.223	17.16
150	0.124	0.160	457	397	0.224	21.45
185	0.0991	0.128	519	444	0.225	26.46
240	0.0754	0.099	608	509	0.223	34.32
300	0.0601	0.080	690	568	0.221	42.90

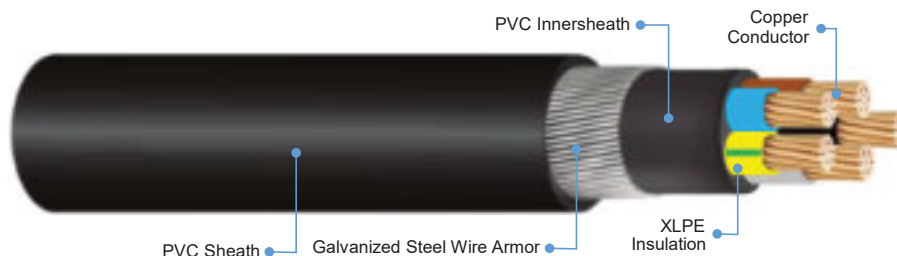
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

N2XRY 5 x (1.5 - 50) mm²

Cu / XLPE / SWA / PVC

(Copper Conductor, XLPE Insulated, Galvanized Steel Wire Armor, PVC Sheathed)

Standard Specification : SNI IEC 60502-1



APPLICATION :

For installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

Special Features on Request

- Flame Retardant Non Category
- Flame Retardant Cat. A, B, C
- Heat Resistance
- Oil Resistance
- UV Resistance
- Anti Termite
- Anti Rodent

Note :

Conductor Shaped

1.5 - 10 sqmm supplied in solid (re) or circular stranded (rm)

conductor shape

16 sqmm supplied in non compact circular stranded (rm) conductor shape

25 - 50 sqmm supplied in compacted circular stranded (cm)

conductor shape

Standard Packing

1.5 - 50 sqmm supplied in wooden drum @ 1000 m

Length Tolerance per drum $\pm 1.5\%$

Minimum Bending radius fixed installation

Multi cores : 16 x D

D is overall diameter of cable

Construction Data

Nom.Cross Sect.	mm ²	1.5	2.5	4	6	10	16	25	35	50
Overall diameter (Approx.)	mm	15.5	17.5	18.5	20.0	22.5	26.0	29.5	32.5	38.0
Bending radius	mm	248	280	296	320	360	416	472	520	608
Cable Weight (Approx.)	kg/km	444	564	753	914	1216	1775	2414	3041	4109

Electrical Data

Conductor		Current-Carrying Capacity at 30°C		Inductance	Short circuit current at 1 sec Max.	
Nom. Cross Sect.	DC Resistance at 20°C Max.					AC Resistance at 90°C Max.
(mm²)	(Ω/km)	(Ω/km)	in air Max.	in ground Max.	(mH/km)	(kA)
1.5	12.1	15.4	29	34	0.316	0.21
2.5	7.41	9.45	38	43	0.295	0.36
4	4.61	5.88	51	56	0.277	0.57
6	3.08	3.93	65	70	0.264	0.86
10	1.83	2.33	89	94	0.249	1.43
16	1.15	1.47	120	122	0.238	2.29
25	0.727	0.927	161	158	0.242	3.58
35	0.524	0.668	197	189	0.235	5.01
50	0.387	0.494	239	222	0.233	7.15

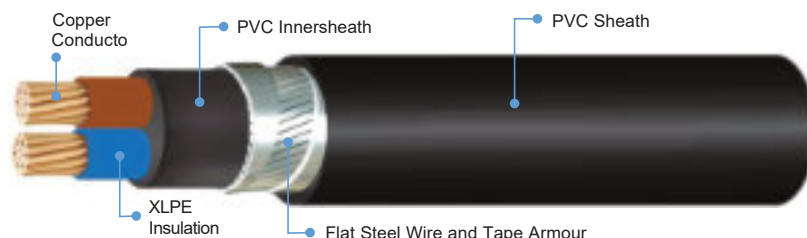
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

N2XFGbY 2 x (1.5 - 300) mm²

Cu / XLPE / SFA / PVC

(Copper Conductor, XLPE Insulated, Galvanized Steel Flat Wire Armor, PVC Sheathed)

Standard Specification : SNI IEC 60502-1



APPLICATION :

For installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

Special Features on Request

- Flame Retardant Non Category
- Flame Retardant Cat. A, B, C
- Heat Resistance
- Oil Resistance
- UV Resistance
- Anti Termite
- Anti Rodent

Note :

Conductor Shaped

1.5 - 10 sqmm supplied in solid (re) or circular stranded (rm) conductor shape
16 sqmm supplied in non compact circular stranded (rm) conductor shape
25 - 300 sqmm supplied in non compact circular stranded (rm) or compacted circular stranded (cm) conductor shape

Standard Packing

1.5 - 120 sqmm supplied in wooden drum @ 1000 m
185 sqmm and above will be supplied in wooden drum on available length
Length Tolerance per drum $\pm 1.5\%$

Minimum Bending radius fixed installation

Multi cores : 16 x D
D is overall diameter of cable

Construction Data

Nom.Cross Sect.	mm ²	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
Overall diameter (Approx.)	mm	17.5	17.5	17.5	17.5	18.0	20.0	23.0	25.0	28.0	32.0	35.5	39.5	43.5	48.0	53.5	58.5
Bending radius	mm	280	280	280	280	288	320	368	400	448	512	568	632	696	768	856	936
Cable Weight (Approx.)	kg/km	599	617	634	665	784	982	1309	1624	1948	2545	3276	3932	4754	5796	7261	8851

Electrical Data

Conductor			Current-Carrying Capacity at 30°C		Inductance	Short circuit current at 1 sec Max.
Nom. Cross Sect.	DC Resistance at 20°C Max.	AC Resistance at 90°C Max.				
(mm ²)	(Ω/km)	(Ω/km)	(A)	(A)	(mH/km)	(kA)
1.5	12.1	15.4	30	33	0.316	0.21
2.5	7.41	9.45	40	44	0.295	0.36
4	4.61	5.88	53	58	0.277	0.57
6	3.08	3.93	66	74	0.264	0.86
10	1.83	2.33	91	102	0.249	1.43
16	1.15	1.47	122	132	0.238	2.29
25	0.727	0.927	161	169	0.242	3.58
35	0.524	0.668	197	204	0.235	5.01
50	0.387	0.494	238	241	0.233	7.15
70	0.268	0.342	300	296	0.229	10.01
95	0.193	0.247	367	355	0.224	13.59
120	0.153	0.196	426	403	0.223	17.16
150	0.124	0.160	485	451	0.224	21.45
185	0.0991	0.128	556	508	0.225	26.46
240	0.0754	0.099	656	588	0.223	34.32
300	0.0601	0.080	750	661	0.221	42.90

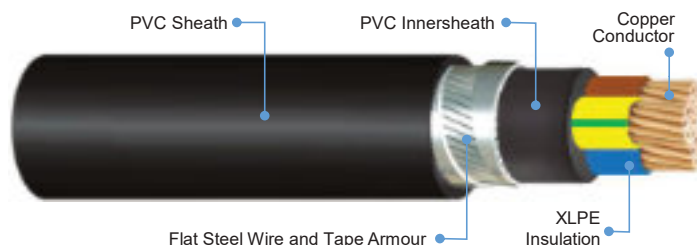
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

N2XFGbY 3 x (1.5 - 300) mm²

Cu / XLPE / SFA / PVC

(Copper Conductor, XLPE Insulated, Galvanized Steel Flat Wire Armor, PVC Sheathed)

Standard Specification : SNI IEC 60502-1



APPLICATION :

For installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

Special Features on Request

- Flame Retardant Non Category
- Flame Retardant Cat. A, B, C
- Heat Resistance
- Oil Resistance
- UV Resistance
- Anti Termite
- Anti Rodent

Note :

Conductor Shaped

1.5 - 10 sqmm supplied in solid (re) or circular stranded (rm) conductor shape
 16 sqmm supplied in non compact circular stranded (rm) conductor shape
 25 - 35 sqmm supplied in compacted circular stranded (cm) conductor shape
 50 - 300 sqmm supplied in compacted circular stranded or sector shaped stranded (sm) conductor

Standard Packing

1.5 - 95 sqmm supplied in wooden drum @ 1000 m
 120 sqmm and above will be supplied in wooden drum on available length
 Length Tolerance per drum $\pm 1.5\%$

Minimum Bending radius fixed installation

Multi cores : $16 \times D$
 D is overall diameter of cable

Construction Data

Nom.Cross Sect.	mm ²	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
Overall diameter (Approx.)	mm	17.5	17.5	17.5	17.5	19.0	21.0	24.0	26.0	29.5	34.5	38.0	42.0	47.0	51.0	57.5	63.0
Bending radius	mm	280	280	280	280	304	336	384	416	472	552	608	672	752	816	920	1008
Cable Weight (Approx.)	kg/km	611	630	660	707	887	1162	1570	1970	2249	3022	3871	4661	5685	6919	8789	10695

Electrical Data

Conductor			Current-Carrying Capacity at 30°C		Inductance	Short circuit current at 1 sec Max.
Nom. Cross Sect.	DC Resistance at 20°C Max.	AC Resistance at 90°C Max.	in air Max.	in ground Max.		
(mm ²)	(Ω/km)	(Ω/km)	(A)	(A)	(mH/km)	(kA)
1.5	12.1	15.4	26	28	0.316	0.21
2.5	7.41	9.45	34	37	0.295	0.36
4	4.61	5.88	45	50	0.277	0.57
6	3.08	3.93	56	63	0.264	0.86
10	1.83	2.33	77	85	0.249	1.43
16	1.15	1.47	104	111	0.238	2.29
25	0.727	0.927	137	143	0.242	3.58
35	0.524	0.668	168	171	0.235	5.01
50	0.387	0.494	207	207	0.233	7.15
70	0.268	0.342	260	253	0.229	10.01
95	0.193	0.247	319	303	0.224	13.59
120	0.153	0.196	369	345	0.223	17.16
150	0.124	0.160	421	385	0.224	21.45
185	0.0991	0.128	486	435	0.225	26.46
240	0.0754	0.099	574	503	0.223	34.32
300	0.0601	0.080	657	566	0.221	42.90

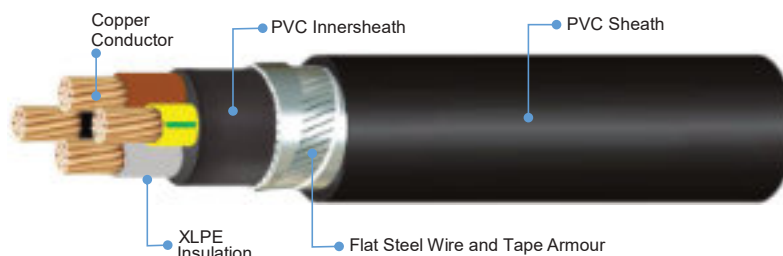
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

N2XFGbY 4 x (1.5 - 300) mm²

Cu / XLPE / SFA / PVC

(Copper Conductor, XLPE Insulated, Galvanized Steel Flat Wire Armor, PVC Sheathed)

Standard Specification : SNI IEC 60502-1



APPLICATION :

For installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

Special Features on Request

- Flame Retardant Non Category
- Flame Retardant Cat. A, B, C
- Heat Resistance
- Oil Resistance
- UV Resistance
- Anti Termite
- Anti Rodent

Note :

Conductor Shaped

1.5 - 10 sqmm supplied in solid (re) or circular stranded (rm)
conductor shape
16 sqmm supplied in non compact circular stranded (rm) conductor
shape
25 - 35 sqmm supplied in compacted circular stranded (cm)
conductor shape
50 - 300 sqmm supplied in compacted circular stranded or sector
shaped stranded (sm) conductor

Standard Packing

1.5 - 70 sqmm supplied in wooden drum @ 1000 m
95 sqmm and above will be supplied in wooden drum on
available length
Length Tolerance per drum $\pm 1.5\%$

Minimum Bending radius fixed installation

Multi cores : 16 x D
D is overall diameter of cable

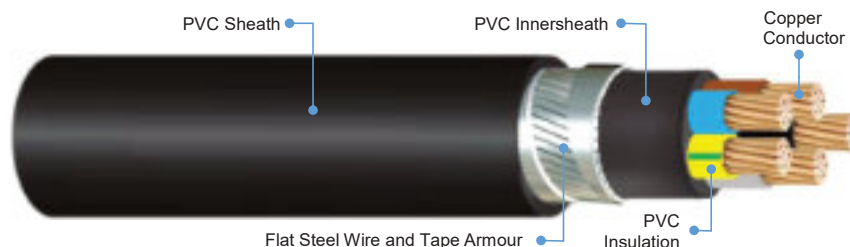
Construction Data

Nom.Cross Sect.	mm ²	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
Overall diameter (Approx.)	mm	17.5	17.5	17.5	18.0	20.5	23.0	26.0	28.5	32.5	37.5	41.5	46.5	51.5	56.5	63.5	69.5
Bending radius	mm	280	280	280	288	328	368	416	456	520	600	664	744	824	904	1016	1112
Cable Weight (Approx.)	kg/km	618	639	684	798	1049	1379	1887	2384	2836	3811	4945	6067	7381	8935	11422	13908

Electrical Data

Nom. Cross Sect.	Conductor		Current-Carrying Capacity at 30°C		Inductance	Short circuit current at 1 sec Max.
	DC Resistance at 20°C Max.	AC Resistance at 90°C Max.	in air Max.	in ground Max.		
(mm ²)	(Ω /km)	(Ω /km)	(A)	(A)	(mH/km)	(kA)
1.5	12.1	15.4	28	31	0.316	0.21
2.5	7.41	9.45	38	42	0.295	0.36
4	4.61	5.88	49	55	0.277	0.57
6	3.08	3.93	62	69	0.264	0.86
10	1.83	2.33	85	92	0.249	1.43
16	1.15	1.47	114	120	0.238	2.29
25	0.727	0.927	152	155	0.242	3.58
35	0.524	0.668	187	185	0.235	5.01
50	0.387	0.494	219	212	0.233	7.15
70	0.268	0.342	273	259	0.229	10.01
95	0.193	0.247	336	311	0.224	13.59
120	0.153	0.196	389	352	0.223	17.16
150	0.124	0.160	452	398	0.224	21.45
185	0.0991	0.128	516	447	0.225	26.46
240	0.0754	0.099	609	517	0.223	34.32
300	0.0601	0.080	697	581	0.221	42.90

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

N2XFGbY 5 x (1.5 - 50) mm²
Cu / XLPE / SFA / PVC
(Copper Conductor, XLPE Insulated, Galvanized Steel Flat Wire Armor, PVC Sheathed)
Standard Specification : SNI IEC 60502-1

APPLICATION :

For installation in the ground, indoors, cable trunking and outdoors if increased mechanical protection is required or where high-pulling stresses may occur during installation or operation.

Special Features on Request

- Flame Retardant Non Category
- Flame Retardant Cat. A, B, C
- Heat Resistance
- Oil Resistance
- UV Resistance
- Anti Termite
- Anti Rodent

Note :
Conductor Shaped

1.5 - 10 sqmm supplied in solid (re) or circular stranded (rm)

conductor shape

16 sqmm supplied in non compact circular stranded (rm) conductor

shape

25 - 50 sqmm supplied in compacted circular stranded (cm)

conductor shape

Standard Packing

1.5 - 50 sqmm supplied in wooden drum @ 1000 m

Length Tolerance per drum $\pm 1.5\%$
Minimum Bending radius fixed installation

Multi cores : $16 \times D$

D is overall diameter of cable

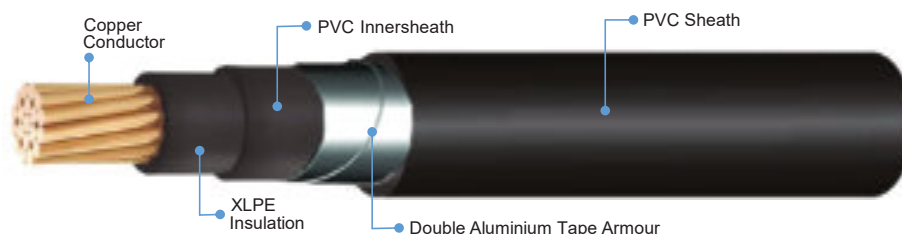
Construction Data

Nom.Cross Sect.	mm ²	1.5	2.5	4	6	10	16	25	35	50
Overall diameter (Approx.)	mm	17.5	17.5	18.0	19.5	22.0	24.5	28.0	31.0	36.0
Bending radius	mm	280	280	288	312	352	392	448	496	576
Cable Weight (Approx.)	kg/km	624	663	768	923	1219	1612	2250	2867	3622

Electrical Data

Conductor			Current-Carrying Capacity at 30°C		Inductance	Short circuit current at 1 sec Max.
Nom. Cross Sect.	DC Resistance at 20°C Max.	AC Resistance at 90°C Max.				
(mm²)	(Ω/km)	(Ω/km)	in air Max.	in ground Max.	(mH/km)	(kA)
1.5	12.1	15.4	29	34	0.316	0.21
2.5	7.41	9.45	38	43	0.295	0.36
4	4.61	5.88	51	56	0.277	0.57
6	3.08	3.93	64	70	0.264	0.86
10	1.83	2.33	88	93	0.249	1.43
16	1.15	1.47	118	122	0.238	2.29
25	0.727	0.927	158	157	0.242	3.58
35	0.524	0.668	194	188	0.235	5.01
50	0.387	0.494	234	221	0.233	7.15

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

N2XB(AL)Y 1 x (16 - 630) mm²
Cu / XLPE / DATA / PVC
(Copper Conductor, XLPE Insulated, Aluminium Tape Armor, PVC Sheathed)
Standard Specification : SNI IEC 60502-1

APPLICATION :

For industry installations, switchgear, and power station, if there is a risk that low mechanical damage may occur. Installation indoors, cable channels and in ground

Special Features on Request

- Flame Retardant Non Category
- Flame Retardant Cat. A, B, C
- Heat Resistance
- Oil Resistance
- UV Resistance
- Anti Termite
- Anti Rodent

Note :
Conductor Shaped

16 sqmm supplied in non compact circular stranded (rm) conductor shape

25 - 500 sqmm supplied in non compact circular stranded (rm) or compacted circular stranded (cm) conductor shape

Standard Packing

16 - 400 sqmm supplied in wooden drum @ 1000 m

630 sqmm and above will be supplied in wooden drum on available length

Length Tolerance per drum $\pm 1.5\%$
Minimum Bending radius fixed installation

Single core : $18 \times D$

D is overall diameter of cable

Construction Data

Nom.Cross Sect.	mm ²	16	25	35	50	70	95	120	150	185	240	300	400	500
Overall diameter (Approx.)	mm	15.0	15.5	16.0	17.5	19.0	21.0	22.5	24.5	26.5	29.0	31.5	35.0	39.0
Bending radius	mm	270	279	288	315	342	378	405	441	477	522	567	630	702
Cable Weight (Approx.)	kg/km	384	457	564	727	951	1214	1470	1754	2165	2767	3341	4245	5373

Electrical Data

Conductor			Current-Carrying Capacity at 30°C				Inductance		Short circuit current at 1 sec Max.
Nom. Cross Sect.	DC Resistance at 20°C Max.	AC Resistance at 90°C Max.					Trefoil formation 	Flat formation 	
			in air Max.	in ground Max.	in air Max.	in ground Max.			
(mm²)	(Ω/km)	(Ω/km)	(A)	(A)	(A)	(A)	(mH/km)	(mH/km)	(kA)
16	1.15	1.47	119	122	122	122	0.408	0.454	2.29
25	0.727	0.927	155	154	159	158	0.377	0.423	3.58
35	0.524	0.668	189	184	194	189	0.353	0.399	5.01
50	0.387	0.494	230	218	236	228	0.338	0.384	7.15
70	0.268	0.342	288	266	296	289	0.321	0.367	10.01
95	0.193	0.247	354	319	363	356	0.307	0.353	13.59
120	0.153	0.196	409	361	420	417	0.298	0.344	17.16
150	0.124	0.160	467	404	479	479	0.292	0.339	21.45
185	0.0991	0.128	540	455	557	557	0.288	0.334	26.46
240	0.0754	0.099	639	526	657	657	0.279	0.325	34.32
300	0.0601	0.080	732	588	758	758	0.274	0.320	42.90
400	0.047	0.064	842	658	913	913	0.271	0.317	57.20
500	0.0366	0.052	965	735	1069	1069	0.266	0.312	71.50
630	0.0283	0.043	1097	811	1092	801	0.261	0.307	90.09

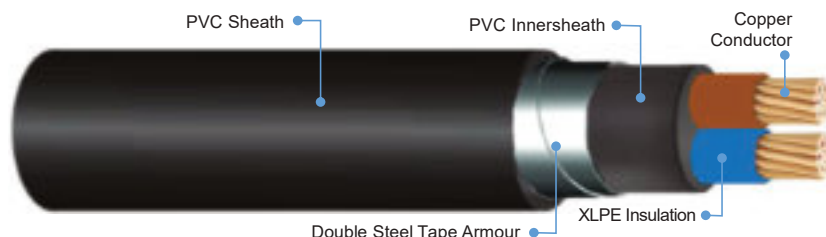
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

N2XBY 2 x (1.5 - 300) mm²

Cu / XLPE / DSTA / PVC

(Copper Conductor, XLPE Insulated, Galvanized Steel Tape Armor, PVC Sheathed)

Standard Specification : SNI IEC 60502-1



APPLICATION :

For industry installations, switchgear, and power station, if there is a risk that low mechanical damage may occur. Installation indoors, cable channels and in ground

Special Features on Request

- Flame Retardant Non Category
- Flame Retardant Cat. A, B, C
- Heat Resistance
- Oil Resistance
- UV Resistance
- Anti Termite
- Anti Rodent

Standard Packing

1.5 - 150 sqmm supplied in wooden drum @ 1000 m
185 sqmm and above will be supplied in wooden drum on available length
Length Tolerance per drum $\pm 1.5\%$

Note :

Conductor Shaped

1.5 - 10 sqmm supplied in solid (re) or circular stranded (rm) conductor shape
16 sqmm supplied in non compact circular stranded (rm) conductor shape
25 - 300 sqmm supplied in non compact circular stranded (rm) or compacted circular stranded (cm) conductor shape

Minimum Bending radius fixed installation

Multi cores : 18 x D
D is overall diameter of cable

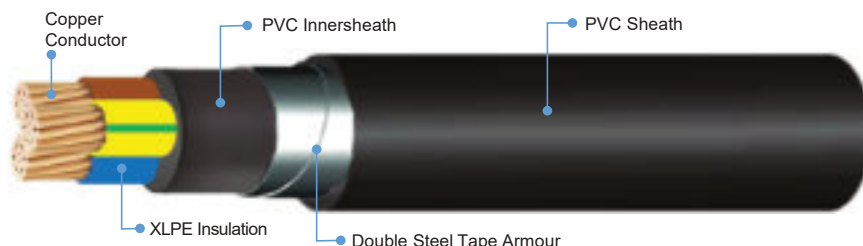
Construction Data

Nom. Cross Sect.	mm ²	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
Overall diameter (Approx.)	mm	14.0	14.0	14.0	15.0	16.5	19.0	21.5	23.5	26.5	30.5	34.5	39.0	43.5	47.5	53.5	58.5
Bending radius	mm	252	252	252	270	297	342	387	423	477	549	621	702	783	855	963	1053
Cable Weight (Approx.)	kg/km	291	308	326	395	530	701	985	1250	1527	2078	2736	3721	4512	5530	6978	8504

Electrical Data

Nom. Cross Sect.	Conductor		Current-Carrying Capacity at 30°C		Inductance	Short circuit current at 1 sec Max.
	DC Resistance at 20°C Max.	AC Resistance at 90°C Max.	in air Max.	in ground Max.		
(mm ²)	(Ω/km)	(Ω/km)	(A)	(A)	(mH/km)	(kA)
1.5	12.1	15.4	29	34	0.316	0.21
2.5	7.41	9.45	39	45	0.295	0.36
4	4.61	5.88	51	59	0.277	0.57
6	3.08	3.93	65	74	0.264	0.86
10	1.83	2.33	89	101	0.249	1.43
16	1.15	1.47	119	131	0.238	2.29
25	0.727	0.927	158	168	0.242	3.58
35	0.524	0.668	194	202	0.235	5.01
50	0.387	0.494	234	240	0.233	7.15
70	0.268	0.342	296	294	0.229	10.01
95	0.193	0.247	362	352	0.224	13.59
120	0.153	0.196	425	403	0.223	17.16
150	0.124	0.160	484	451	0.224	21.45
185	0.0991	0.128	554	508	0.225	26.46
240	0.0754	0.099	655	587	0.223	34.32
300	0.0601	0.080	748	659	0.221	42.90

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

N2XBY 3 x (1.5 - 300) mm²
Cu / XLPE / DSTA / PVC
(Copper Conductor, XLPE Insulated, Galvanized Steel Tape Armor, PVC Sheathed)
Standard Specification : SNI IEC 60502-1

APPLICATION :

For industry installations, switchgear, and power station, if there is a risk that low mechanical damage may occur. Installation indoors, cable channels and in ground

Special Features on Request

- Flame Retardant Non Category
- Flame Retardant Cat. A, B, C
- Heat Resistance
- Oil Resistance
- UV Resistance
- Anti Termite
- Anti Rodent

Note :
Conductor Shaped

1.5 - 10 sqmm supplied in solid (re) or circular stranded (rm)

conductor shape

16 sqmm supplied in non compact circular stranded (rm) conductor

shape

25 - 35 sqmm supplied in compacted circular stranded (cm)

conductor shape

50 - 300 sqmm supplied in compacted circular stranded or sector

shaped stranded (sm) conductor

Minimum Bending radius fixed installation

Multi cores : 18 x D

D is overall diameter of cable

Standard Packing

1.5 - 120 sqmm supplied in wooden drum @ 1000 m

150 sqmm and above will be supplied in wooden drum on available length

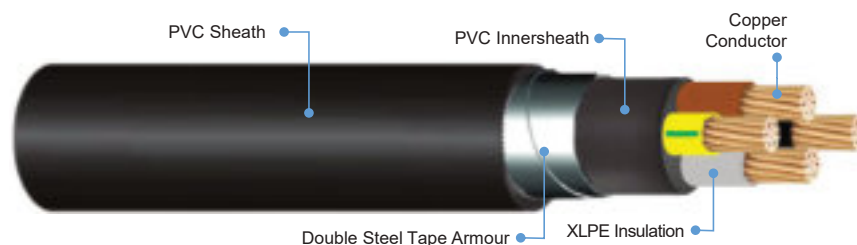
Length Tolerance per drum $\pm 1.5\%$
Construction Data

Nom. Cross Sect.	mm ²	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
Overall diameter (Approx.)	mm	14.0	14.0	14.5	15.5	17.5	20.0	22.5	24.5	28.0	33.0	36.5	41.5	46.5	51.0	57.5	62.5
Bending radius	mm	252	252	261	279	315	360	405	441	504	594	657	747	837	918	1035	1125
Cable Weight (Approx.)	kg/km	302	322	375	460	634	855	1222	1572	1816	2515	3331	4446	5442	6648	8504	10362

Electrical Data

Nom. Cross Sect.	Conductor		Current-Carrying Capacity at 30°C		Inductance	Short circuit current at 1 sec Max.
	DC Resistance at 20°C Max.	AC Resistance at 90°C Max.	in air Max.	in ground Max.		
(mm ²)	(Ω /km)	(Ω /km)	(A)	(A)	(mH/km)	(kA)
1.5	12.1	15.4	25	29	0.316	0.21
2.5	7.41	9.45	33	38	0.295	0.36
4	4.61	5.88	43	50	0.277	0.57
6	3.08	3.93	55	62	0.264	0.86
10	1.83	2.33	75	101	0.249	1.43
16	1.15	1.47	101	110	0.238	2.29
25	0.727	0.927	134	141	0.242	3.58
35	0.524	0.668	165	170	0.235	5.01
50	0.387	0.494	203	206	0.233	7.15
70	0.268	0.342	256	251	0.229	10.01
95	0.193	0.247	314	300	0.224	13.59
120	0.153	0.196	368	344	0.223	17.16
150	0.124	0.160	420	384	0.224	21.45
185	0.0991	0.128	485	435	0.225	26.46
240	0.0754	0.099	572	501	0.223	34.32
300	0.0601	0.080	655	564	0.221	42.90

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

N2XBY 4 x (1.5 - 300) mm²
Cu / XLPE / DSTA / PVC
(Copper Conductor, XLPE Insulated, Galvanized Steel Tape Armor, PVC Sheathed)
Standard Specification : SNI IEC 60502-1

APPLICATION :

For industry installations, switchgear, and power station, if there is a risk that low mechanical damage may occur. Installation indoors, cable channels and in ground

Special Features on Request

- Flame Retardant Non Category
- Flame Retardant Cat. A, B, C
- Heat Resistance
- Oil Resistance
- UV Resistance
- Anti Termite
- Anti Rodent

Note :
Conductor Shaped

1.5 - 10 sqmm supplied in solid (re) or circular stranded (rm) conductor shape
16 sqmm supplied in non compact circular stranded (rm) conductor shape
25 - 35 sqmm supplied in compacted circular stranded (cm) conductor shape
50 - 300 sqmm supplied in compacted circular stranded or sector shaped stranded (sm) conductor

Standard Packing

1.5 - 70 sqmm supplied in wooden drum @ 1000 m
120 sqmm and above will be supplied in wooden drum on available length
Length Tolerance per drum $\pm 1.5\%$

Minimum Bending radius fixed installation

Multi cores : $18 \times D$
D is overall diameter of cable

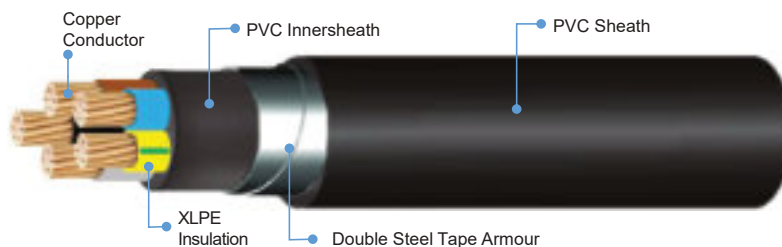
Construction Data

Nom.Cross Sect.	mm ²	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
Overall diameter (Approx.)	mm	14.0	15.0	15.5	17.0	19.0	21.5	24.5	27.0	31.0	36.0	41.5	46.5	51.0	56.0	63.5	69.0
Bending radius	mm	252	270	279	306	342	387	441	486	558	648	747	837	918	1008	1143	1242
Cable Weight (Approx.)	kg/km	308	345	437	545	768	1054	1515	1965	2353	3256	4721	5816	7095	8640	11073	13514

Electrical Data

Nom. Cross Sect.	Conductor		Current-Carrying Capacity at 30°C		Inductance	Short circuit current at 1 sec Max.
	DC Resistance at 20°C Max.	AC Resistance at 90°C Max.	in air Max.	in ground Max.		
(mm ²)	(Ω/km)	(Ω/km)	(A)	(A)	(mH/km)	(kA)
1.5	12.1	15.4	27	32	0.316	0.21
2.5	7.41	9.45	36	42	0.295	0.36
4	4.61	5.88	48	55	0.277	0.57
6	3.08	3.93	60	68	0.264	0.86
10	1.83	2.33	83	91	0.249	1.43
16	1.15	1.47	111	119	0.238	2.29
25	0.727	0.927	149	153	0.242	3.58
35	0.524	0.668	184	184	0.235	5.01
50	0.387	0.494	215	211	0.233	7.15
70	0.268	0.342	270	257	0.229	10.01
95	0.193	0.247	336	311	0.224	13.59
120	0.153	0.196	388	352	0.223	17.16
150	0.124	0.160	451	397	0.224	21.45
185	0.0991	0.128	515	446	0.225	26.46
240	0.0754	0.099	607	516	0.223	34.32
300	0.0601	0.080	695	580	0.221	42.90

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

N2XBY 5 x (1.5 - 50) mm²
Cu / XLPE / DSTA / PVC
(Copper Conductor, XLPE Insulated, Galvanized Steel Tape Armor, PVC Sheathed)
Standard Specification : SNI IEC 60502-1

APPLICATION :

For industry installations, switchgear, and power station, if there is a risk that low mechanical damage may occur.
Installation indoors, cable channels and in ground

Special Features on Request

- Flame Retardant Non Category
- Flame Retardant Cat. A, B, C
- Heat Resistance
- Oil Resistance
- UV Resistance
- Anti Termite
- Anti Rodent

Note :
Conductor Shaped

1.5 - 10 sqmm supplied in solid (re) or circular stranded (rm)
conductor shape
16 sqmm supplied in non compact circular stranded (rm)
conductor shape
25 - 50 sqmm supplied in compacted circular stranded (cm)
conductor shape

Standard Packing

1.5 - 50 sqmm supplied in wooden drum @ 1000 m
Length Tolerance per drum $\pm 1.5\%$

Minimum Bending radius fixed installation

Multi cores : $18 \times D$
D is overall diameter of cable

Construction Data

Nom.Cross Sect.	mm ²	1.5	2.5	4	6	10	16	25	35	50
Overall diameter (Approx.)	mm	14.0	16.0	16.5	18.0	20.5	23.5	27.0	29.5	34.5
Bending radius	mm	252	288	297	324	369	423	486	531	621
Cable Weight (Approx.)	kg/km	320	401	514	645	913	1263	1831	2400	3065

Electrical Data

Nom. Cross Sect.	Conductor		Current-Carrying Capacity at 30°C		Inductance	Short circuit current at 1 sec Max.
	DC Resistance at 20°C Max.	AC Resistance at 90°C Max.				
			in air Max.	in ground Max.		
(mm ²)	(Ω/km)	(Ω/km)	(A)	(A)	(mH/km)	(kA)
1.5	12.1	15.4	28	33	0.316	0.21
2.5	7.41	9.45	37	43	0.295	0.36
4	4.61	5.88	49	55	0.277	0.57
6	3.08	3.93	62	69	0.264	0.86
10	1.83	2.33	86	92	0.249	1.43
16	1.15	1.47	115	121	0.238	2.29
25	0.727	0.927	155	156	0.242	3.58
35	0.524	0.668	191	187	0.235	5.01
50	0.387	0.494	231	220	0.233	7.15

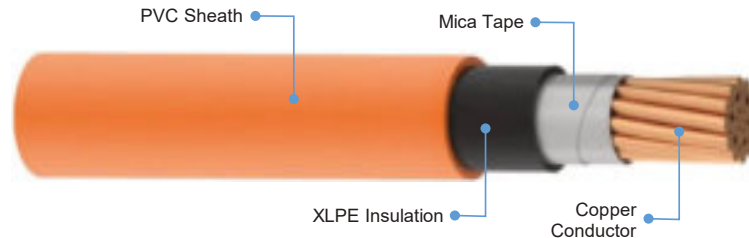
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

N2XY-FRC 1 x (1.5 - 630) mm²

Cu / Mica / XLPE / PVC

(Copper Conductor, Mica Tape, XLPE Insulated, PVC Sheathed)

Standard Specification : SNI IEC 60502-1 & IEC 60331



APPLICATION :

For wiring of fire resistant safety circuits, such as fire alarm system, emergency lighting and power, public address and emergency voice communication systems in highrise building, control and instrumentation services in industrial, commercial and residential complexes. Suitable as heat resistant cable for high temperature.

Special Features on Request

- Fire Resistance
- Flame Retardant Non Category
- Flame Retardant Cat. A, B, C
- Heat Resistance
- Oil Resistance
- UV Resistance
- Anti Termite
- Anti Rodent

Standard Packing

1.5 - 10 sqmm supplied in coil @ 100 m

16 - 400 sqmm supplied in wooden drum @ 1000 m

500 sqmm and above will be supplied in wooden drum on available length

Length Tolerance per drum $\pm 1.5\%$

Note :

Conductor Shaped

1.5 - 10 sqmm supplied in solid (re) or circular stranded (rm)

conductor shape

16 sqmm supplied in non compact circular stranded (rm)

conductor shape

25 - 500 sqmm supplied in non compact circular stranded (rm) or compacted circular stranded (cm) conductor shape

Minimum Bending radius fixed installation

Single core : $12 \times D$

D is overall diameter of cable

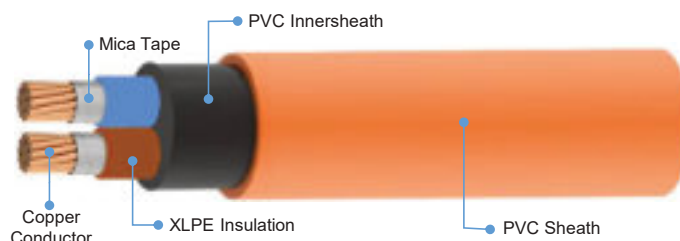
Construction Data

Nom.Cross Sect.	mm ²	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240	300	400	500	630
Overall diameter (Approx.)	mm	7.0	7.5	8.0	8.5	9.5	10.5	12.5	13.5	15.0	17.0	19.0	21.0	23.0	25.5	29.0	31.5	35.0	39.5	44.0
Bending radius	mm	84	90	96	102	114	126	150	162	180	204	228	252	276	306	348	378	420	474	528
Cable Weight (Approx.)	kg/km	58	72	91	114	161	221	330	424	572	777	1029	1272	1548	1949	2540	3076	3930	5019	6518

Electrical Data

Conductor			Current-Carrying Capacity at 30°C				Inductance		Short circuit current at 1 sec Max.
Nom. Cross Sect.	DC Resistance at 20°C Max.	AC Resistance at 90°C Max.					Trefoil formation 	Flat formation 	
			in air Max.	in ground Max.	in air Max.	in ground Max.			
(mm ²)	(Ω/km)	(Ω/km)	(A)	(A)	(A)	(A)	(mH/km)	(mH/km)	(kA)
1.5	12.1	15.4	25	33	26	33	0.486	0.533	0.21
2.5	7.41	9.45	34	45	35	43	0.453	0.499	0.36
4	4.61	5.88	46	58	46	55	0.420	0.466	0.57
6	3.08	3.93	58	76	58	68	0.393	0.439	0.86
10	1.83	2.33	80	98	80	91	0.363	0.409	1.43
16	1.15	1.47	105	119	108	118	0.337	0.383	2.29
25	0.727	0.927	142	153	146	152	0.325	0.372	3.58
35	0.524	0.668	174	185	179	181	0.308	0.354	5.01
50	0.387	0.494	214	217	221	215	0.296	0.343	7.15
70	0.268	0.342	272	266	280	262	0.285	0.331	10.01
95	0.193	0.247	337	318	348	314	0.274	0.321	13.59
120	0.153	0.196	394	361	406	357	0.270	0.317	17.16
150	0.124	0.160	453	405	468	399	0.268	0.314	21.45
185	0.0991	0.128	529	457	546	451	0.266	0.312	26.46
240	0.0754	0.099	633	530	653	522	0.264	0.310	34.32
300	0.0601	0.080	732	596	755	587	0.258	0.304	42.90
400	0.0470	0.064	852	674	879	663	0.255	0.301	57.20
500	0.0366	0.052	990	761	1023	748	0.254	0.300	71.50
630	0.0283	0.043	1147	853	1185	838	0.250	0.296	90.09

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

N2XY-FRC 2 x (1.5 - 300) mm²
Cu / Mica / XLPE / PVC
(Copper Conductor, Mica Tape, XLPE Insulated, PVC Sheathed)
Standard Specification : SNI IEC 60502-1 & IEC 60331

APPLICATION :

For wiring of fire resistant safety circuits, such as fire alarm system, emergency lighting and power, public address and emergency voice communication systems in highrise building, control and instrumentation services in industrial, commercial and residential complexes. Suitable as heat resistant cable for high temperature.

Special Features on Request

- Fire Resistance
- Flame Retardant Non Category
- Flame Retardant Cat. A, B, C
- Heat Resistance
- Oil Resistance
- UV Resistance
- Anti Termite
- Anti Rodent

Standard Packing

1.5 - 150 sqmm supplied in wooden drum @ 1000 m
 185 sqmm and above will be supplied in wooden drum on available length
 Length Tolerance per drum $\pm 1.5\%$

Note :
Conductor Shaped

1.5 - 10 sqmm supplied in solid (re) or circular stranded (rm) conductor shape
 16 sqmm supplied in non compact circular stranded (rm) conductor shape
 25 - 300 sqmm supplied in non compact circular stranded (rm) or compacted circular stranded (cm) conductor shape

Minimum Bending radius fixed installation

Multi core : 12 x D
 D is overall diameter of cable

Construction Data

Nom.Cross Sect.	mm ²	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
Overall diameter (Approx.)	mm	14.5	15.5	17.0	18.0	20.0	22.0	25.0	27.5	30.0	34.5	38.0	41.5	46.5	51.0	56.5	62.5
Bending radius	mm	174	186	204	216	240	264	300	330	360	414	456	498	558	612	678	750
Cable Weight (Approx.)	kg/km	253	299	361	438	578	753	1049	1322	1624	2245	2869	3482	4332	5250	6636	8197

Electrical Data

Nom. Cross Sect.	Conductor		Current-Carrying Capacity at 30°C		Inductance	Short circuit current at 1 sec Max.
	DC Resistance at 20°C Max.	AC Resistance at 90°C Max.	in air Max.	in ground Max.		
(mm ²)	(Ω /km)	(Ω /km)	(A)	(A)	(mH/km)	(kA)
1.5	12.1	15.4	29	34	0.316	0.21
2.5	7.41	9.45	38	44	0.295	0.36
4	4.61	5.88	50	58	0.277	0.57
6	3.08	3.93	64	73	0.264	0.86
10	1.83	2.33	88	98	0.249	1.43
16	1.15	1.47	117	129	0.238	2.29
25	0.727	0.927	155	166	0.242	3.58
35	0.524	0.668	191	200	0.235	5.01
50	0.387	0.494	231	237	0.233	7.15
70	0.268	0.342	293	293	0.229	10.01
95	0.193	0.247	358	350	0.224	13.59
120	0.153	0.196	416	399	0.223	17.16
150	0.124	0.160	476	447	0.224	21.45
185	0.0991	0.128	547	505	0.225	26.46
240	0.0754	0.099	647	585	0.223	34.32
300	0.0601	0.080	741	657	0.221	42.90

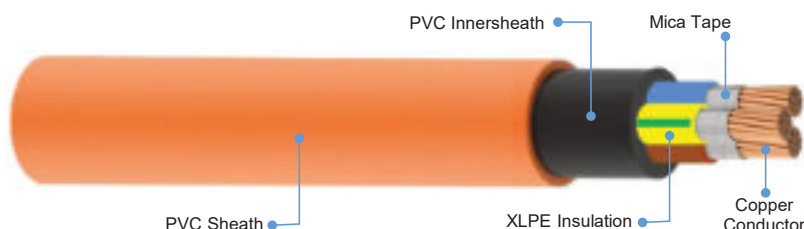
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

N2XY-FRC 3 x (1.5 - 300) mm²

Cu / Mica / XLPE / PVC

(Copper Conductor, Mica Tape, XLPE Insulated, PVC Sheathed)

Standard Specification : SNI IEC 60502-1 & IEC 60331



APPLICATION :

For wiring of fire resistant safety circuits, such as fire alarm system, emergency lighting and power, public address and emergency voice communication systems in highrise building, control and instrumentation services in industrial, commercial and residential complexes. Suitable as heat resistant cable for high temperature.

Special Features on Request

- Fire Resistance
- Flame Retardant Non Category
- Flame Retardant Cat. A, B, C
- Heat Resistance
- Oil Resistance
- UV Resistance
- Anti Termite
- Anti Rodent

Note :

Conductor Shaped

- 1.5 - 10 sqmm supplied in solid (re) or circular stranded (rm) conductor shape
- 16 sqmm supplied in non compact circular stranded (rm) conductor shape
- 25 - 35 sqmm supplied in compacted circular stranded (cm) conductor shape
- 50 - 300 sqmm supplied in compacted circular stranded or sector shaped stranded (sm) conductor

Standard Packing

1.5 - 120 sqmm supplied in wooden drum @ 1000 m
150 sqmm and above will be supplied in wooden drum on available length
Length Tolerance per drum $\pm 1.5\%$

Minimum Bending radius fixed installation

Multi core : $12 \times D$
D is overall diameter of cable

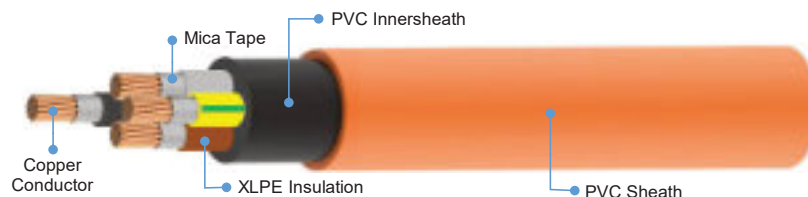
Construction Data

Nom. Cross Sect.	mm ²	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
Overall diameter (Approx.)	mm	15.5	16.5	17.5	19.0	21.0	23.5	26.5	29.0	32.0	37.0	40.5	44.5	50.0	54.5	61.0	66.5
Bending radius	mm	186	198	210	228	252	282	318	348	384	444	486	534	600	654	732	798
Cable Weight (Approx.)	kg/km	280	336	412	508	685	909	1287	1644	2037	2825	3678	4491	5568	6806	8783	10742

Electrical Data

Nom. Cross Sect.	Conductor		Current-Carrying Capacity at 30°C		Inductance	Short circuit current at 1 sec Max.
	DC Resistance at 20°C Max.	AC Resistance at 90°C Max.	in air Max.	in ground Max.		
(mm ²)	(Ω /km)	(Ω /km)	(A)	(A)	(mH/km)	(kA)
1.5	12.1	15.4	21	28	0.316	0.21
2.5	7.41	9.45	32	37	0.295	0.36
4	4.61	5.88	43	49	0.277	0.57
6	3.08	3.93	54	61	0.264	0.86
10	1.83	2.33	74	83	0.249	1.43
16	1.15	1.47	99	108	0.238	2.29
25	0.727	0.927	132	140	0.242	3.58
35	0.524	0.668	163	168	0.235	5.01
50	0.387	0.494	201	204	0.233	7.15
70	0.268	0.342	253	249	0.229	10.01
95	0.193	0.247	311	299	0.224	13.59
120	0.153	0.196	361	341	0.223	17.16
150	0.124	0.160	413	381	0.224	21.45
185	0.0991	0.128	477	432	0.225	26.46
240	0.0754	0.099	565	499	0.223	34.32
300	0.0601	0.080	648	563	0.221	42.90

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

N2XY-FRC 4 x (1.5 - 300) mm²
Cu / Mica / XLPE / PVC
(Copper Conductor, Mica Tape, XLPE Insulated, PVC Sheathed)
Standard Specification : SNI IEC 60502-1 & IEC 60331

APPLICATION :

For wiring of fire resistant safety circuits, such as fire alarm system, emergency lighting and power, public address and emergency voice communication systems in highrise building, control and instrumentation services in industrial, commercial and residential complexes. Suitable as heat resistant cable for high temperature.

Special Features on Request

- Fire Resistance
- Flame Retardant Non Category
- Flame Retardant Cat. A, B, C
- Heat Resistance
- Oil Resistance
- UV Resistance
- Anti Termite
- Anti Rodent

Note :
Conductor Shaped

1.5 - 10 sqmm supplied in solid (re) or circular stranded (rm) conductor shape
 16 sqmm supplied in non compact circular stranded (rm) conductor shape
 25 - 35 sqmm supplied in compacted circular stranded (cm) conductor shape
 50 - 300 sqmm supplied in compacted circular stranded or sector shaped stranded (sm) conductor

Standard Packing

1.5 - 95 sqmm supplied in wooden drum @ 1000 m
 120 sqmm and above will be supplied in wooden drum on available length
 Length Tolerance per drum $\pm 1.5\%$

Minimum Bending radius fixed installation

Multi core : 12 x D
 D is overall diameter of cable

Construction Data

Nom. Cross Sect.	mm ²	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
Overall diameter (Approx.)	mm	16.5	17.5	19.0	20.5	23.2	25.5	29.1	32.3	36.4	41.4	44.5	50.5	55.5	61.4	67.5	67.5
Bending radius	mm	198	210	228	246	278	306	349	388	437	497	534	606	666	737	810	810
Cable Weight (Approx.)	kg/km	321	390	485	602	834	1124	1600	2070	2625	3582	4694	5841	7139	8838	11299	13850

Electrical Data

Nom. Cross Sect.	Conductor		Current-Carrying Capacity at 30°C		Inductance	Short circuit current at 1 sec Max.
	DC Resistance at 20°C Max.	AC Resistance at 90°C Max.	in air Max.	in ground Max.		
(mm ²)	(Ω /km)	(Ω /km)	(A)	(A)	(mH/km)	(kA)
1.5	12.1	15.4	27	31	0.316	0.21
2.5	7.41	9.45	35	41	0.295	0.36
4	4.61	5.88	47	53	0.277	0.57
6	3.08	3.93	59	67	0.264	0.86
10	1.83	2.33	81	89	0.249	1.43
16	1.15	1.47	109	117	0.238	2.29
25	0.727	0.927	147	152	0.242	3.58
35	0.524	0.668	181	182	0.235	5.01
50	0.387	0.494	213	209	0.233	7.15
70	0.268	0.342	266	255	0.229	10.01
95	0.193	0.247	329	307	0.224	13.59
120	0.153	0.196	381	349	0.223	17.16
150	0.124	0.160	444	394	0.224	21.45
185	0.0991	0.128	507	443	0.225	26.46
240	0.0754	0.099	600	514	0.223	34.32
300	0.0601	0.080	688	579	0.221	42.90

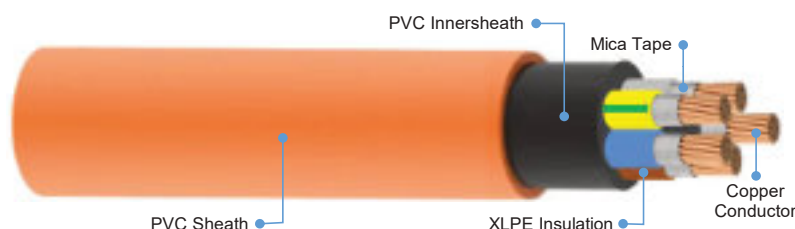
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

N2XY-FRC 5 x (1.5 - 50) mm²

Cu / Mica / XLPE / PVC

(Copper Conductor, Mica Tape, XLPE Insulated, PVC Sheathed)

Standard Specification : SNI IEC 60502-1



APPLICATION :

Power cable : Indoors, cable trunking, outdoors and buried in the ground, for power stations, industry and switchgear as well as for urban supply networks, if mechanical damage is unlikely.

Special Features on Request

- Fire Resistance
- Flame Retardant Non Category
- Flame Retardant Cat. A, B, C
- Heat Resistance
- Oil Resistance
- UV Resistance
- Anti Termite
- Anti Rodent

Standard Packing

1.5 - 50 sqmm supplied in wooden drum @ 1000 m
Length Tolerance per drum $\pm 1.5\%$

Note :

Conductor Shaped

1.5 - 10 sqmm supplied in solid (re) or circular stranded (rm)
conductor shape
16 sqmm supplied in non compact circular stranded (rm) conductor
shape
25 - 50 sqmm supplied in compacted circular stranded (cm)
conductor shape

Minimum Bending radius fixed installation

Multi core : $12 \times D$

D is overall diameter of cable

Construction Data

Nom.Cross Sect.	mm ²	1.5	2.5	4	6	10	16	25	35	50
Overall diameter (Approx.)	mm	16.0	17.0	18.5	20.0	22.5	25.5	29.0	32.5	36.0
Bending radius	mm	192	204	222	240	270	306	348	390	432
Cable Weight (Approx.)	kg/km	338	413	521	656	914	1277	1857	2449	3303

Electrical Data

Nom. Cross Sect.	Conductor		Current-Carrying Capacity at 30°C		Inductance	Short circuit current at 1 sec Max.
	DC Resistance at 20°C Max.	AC Resistance at 90°C Max.	in air Max.	in ground Max.		
(mm ²)	(Ω /km)	(Ω /km)	(A)	(A)	(mH/km)	(kA)
1.5	12.1	15.4	27	32	0.316	0.21
2.5	7.41	9.45	36	42	0.295	0.36
4	4.61	5.88	48	54	0.277	0.57
6	3.08	3.93	61	68	0.264	0.86
10	1.83	2.33	84	91	0.249	1.43
16	1.15	1.47	113	119	0.238	2.29
25	0.727	0.927	153	154	0.242	3.58
35	0.524	0.668	188	185	0.235	5.01
50	0.387	0.494	228	218	0.233	7.15

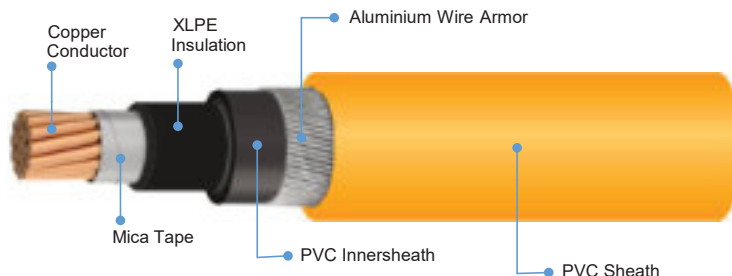
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

N2XR(AL)Y-FRC 1 x (25 - 630) mm²

Cu / Mica / XLPE / AWA / PVC

(Copper Conductor, Mica Tape, XLPE Insulated, Aluminium Wire Armor, PVC Sheathed)

Standard Specification : SNI IEC 60502-1 & IEC 60331



APPLICATION :

For wiring of fire resistant safety circuits, such as fire alarm system, emergency lighting and power, public address and emergency voice communication systems in highrise building, control and instrumentation services in industrial, commercial and residential complexes. Suitable as heat resistant cable for high temperature.

Special Features on Request

- Fire Resistance
- Flame Retardant Non Category
- Flame Retardant Cat. A, B, C
- Heat Resistance
- Oil Resistance
- UV Resistance
- Anti Termite
- Anti Rodent

Note :

Conductor Shaped

10 sqmm supplied in solid (re) or circular stranded (rm) conductor shape
16 sqmm supplied in non compact circular stranded (rm) conductor shape
25 - 630 sqmm supplied in non compact circular stranded (rm) or compacted circular stranded (cm) conductor shape

Standard Packing

10 - 300 sqmm supplied in wooden drum @ 1000 m
400 sqmm and above will be supplied in wooden drum on available length
Length Tolerance per drum $\pm 1.5\%$

Minimum Bending radius fixed installation

Single core : $16 \times D$
D is overall diameter of cable

Construction Data

Nom.Cross Sect.	mm ²	25	35	50	70	95	120	150	185	240	300	400	500	630
Overall diameter (Approx.)	mm	16.5	17.5	19.0	20.5	23.5	25.5	27.5	29.5	32.5	35.5	39.5	43.0	49.0
Bending radius	mm	248	263	285	308	353	383	413	443	488	533	593	645	735
Cable Weight (Approx.)	kg/km	490	598	741	974	1341	1600	1905	2308	2906	3608	4517	5634	7314

Electrical Data

Conductor			Current-Carrying Capacity at 30°C				Inductance		Short circuit current at 1 sec Max.
Nom. Cross Sect.	DC Resistance at 20°C Max.	AC Resistance at 90°C Max.					Trefoil formation 	Flat formation 	
			in air Max.	in ground Max.	in air Max.	in ground Max.			
(mm²)	(Ω/km)	(Ω/km)	(A)	(A)	(A)	(A)	(mH/km)	(mH/km)	(kA)
25	0.727	0.927	159	155	163	159	0.392	0.438	3.58
35	0.524	0.668	193	185	198	190	0.372	0.419	5.01
50	0.387	0.494	234	219	240	225	0.355	0.401	7.15
70	0.268	0.342	293	267	302	274	0.336	0.382	10.01
95	0.193	0.247	359	320	368	327	0.333	0.380	13.59
120	0.153	0.196	417	362	426	369	0.323	0.369	17.16
150	0.124	0.160	474	404	483	410	0.316	0.362	21.45
185	0.0991	0.128	545	454	555	459	0.311	0.357	26.46
240	0.0754	0.099	642	521	649	523	0.301	0.347	34.32
300	0.0601	0.080	731	579	736	579	0.299	0.345	42.90
400	0.047	0.064	828	636	823	627	0.294	0.340	57.20
500	0.0366	0.052	939	702	925	685	0.286	0.332	71.50
630	0.0283	0.043	1054	767	1029	741	0.285	0.332	90.09

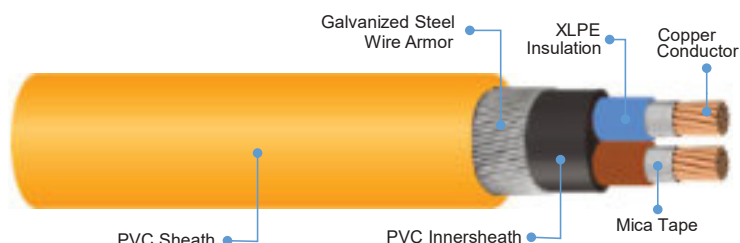
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

N2XRY-FRC 2 x (1.5 - 300) mm²

Cu / Mica / XLPE / SWA / PVC

(Copper Conductor, Mica Tape, XLPE Insulated, Steel Wire Armor, PVC Sheathed)

Standard Specification : SNI IEC 60502-1 & IEC 60331



APPLICATION :

For wiring of fire resistant safety circuits, such as fire alarm system, emergency lighting and power, public address and emergency voice communication systems in highrise building, control and instrumentation services in industrial, commercial and residential complexes. Suitable as heat resistant cable for high temperature.

Special Features on Request

- Fire Resistance
- Flame Retardant Non Category
- Flame Retardant Cat. A, B, C
- Heat Resistance
- Oil Resistance
- UV Resistance
- Anti Termite
- Anti Rodent

Standard Packing

1.5 - 150 sqmm supplied in wooden drum @ 1000 m
185 sqmm and above will be supplied in wooden drum on available length
Length Tolerance per drum $\pm 1.5\%$

Note :

Conductor Shaped

1.5 - 10 sqmm supplied in solid (re) or circular stranded (rm) conductor shape
16 sqmm supplied in non compact circular stranded (rm) conductor shape
25 - 300 sqmm supplied in non compact circular stranded (rm) or compacted circular stranded (cm) conductor shape

Minimum Bending radius fixed installation

Multi core : 16 x D
D is overall diameter of cable

Construction Data

Nom.Cross Sect.	mm ²	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
Overall diameter (Approx.)	mm	18.0	18.5	19.5	21.0	23.5	25.0	27.5	29.5	32.5	37.5	41.0	45.5	50.5	54.5	60.5	65.5
Bending radius	mm	216	222	234	252	282	300	330	354	390	450	492	546	606	654	726	786
Cable Weight (Approx.)	kg/km	580	643	722	831	1152	1323	1662	1998	2417	3430	4200	5354	6414	7543	9328	11097

Electrical Data

Nom. Cross Sect.	Conductor		Current-Carrying Capacity at 30°C		Inductance	Short circuit current at 1 sec Max.
	DC Resistance at 20°C Max.	AC Resistance at 90°C Max.	in air Max.	in ground Max.		
(mm ²)	(Ω /km)	(Ω /km)	(A)	(A)	(mH/km)	(kA)
1.5	12.1	15.4	30	35	0.316	0.21
2.5	7.41	9.45	40	46	0.295	0.36
4	4.61	5.88	53	60	0.277	0.57
6	3.08	3.93	67	75	0.264	0.86
10	1.83	2.33	92	102	0.249	1.43
16	1.15	1.47	123	132	0.238	2.29
25	0.727	0.927	163	170	0.242	3.58
35	0.524	0.668	200	205	0.235	5.01
50	0.387	0.494	241	242	0.233	7.15
70	0.268	0.342	304	296	0.229	10.01
95	0.193	0.247	371	355	0.224	13.59
120	0.153	0.196	429	402	0.223	17.16
150	0.124	0.160	488	449	0.224	21.45
185	0.0991	0.128	561	506	0.225	26.46
240	0.0754	0.099	658	582	0.223	34.32
300	0.0601	0.080	747	649	0.221	42.90

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

N2XRY-FRC 3 x (1.5 - 300) mm²
Cu / Mica / XLPE / SWA / PVC
(Copper Conductor, Mica Tape, XLPE Insulated, Steel Wire Armor, PVC Sheathed)
Standard Specification : SNI IEC 60502-1 & IEC 60331

APPLICATION :

For wiring of fire resistant safety circuits, such as fire alarm system, emergency lighting and power, public address and emergency voice communication systems in highrise building, control and instrumentation services in industrial, commercial and residential complexes. Suitable as heat resistant cable for high temperature.

Special Features on Request

- Fire Resistance
- Flame Retardant Non Category
- Flame Retardant Cat. A, B, C
- Heat Resistance
- Oil Resistance
- UV Resistance
- Anti Termite
- Anti Rodent

Note :
Conductor Shaped

1.5 - 10 sqmm supplied in solid (re) or circular stranded (rm)
 conductor shape
 16 sqmm supplied in non compact circular stranded (rm) conductor
 shape
 25 - 35 sqmm supplied in compacted circular stranded (cm)
 conductor shape
 50 - 300 sqmm supplied in compacted circular stranded or sector
 shaped stranded (sm) conductor

Standard Packing

1.5 - 95 sqmm supplied in wooden drum @ 1000 m
 120 sqmm and above will be supplied in wooden drum
 on available length
 Length Tolerance per drum $\pm 1.5\%$

Minimum Bending radius fixed installation

Multi core : $16 \times D$
 D is overall diameter of cable

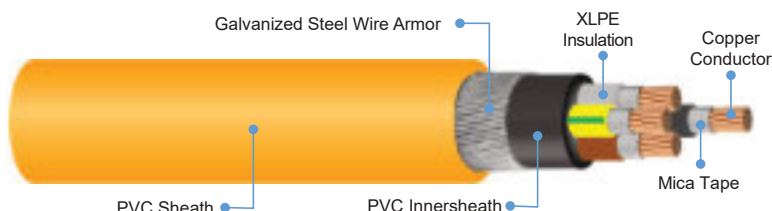
Construction Data

Nom.Cross Sect.	mm ²	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
Overall diameter (Approx.)	mm	18.5	19.5	20.5	22.5	24.5	26.0	29.0	31.0	35.0	39.5	43.5	49.0	53.5	58.0	64.5	69.5
Bending radius	mm	222	234	246	270	294	312	348	372	420	474	522	588	642	696	774	834
Cable Weight (Approx.)	kg/km	631	704	798	1058	1280	1515	1970	2361	3153	4107	5152	6596	7861	9351	11674	13917

Electrical Data

Nom. Cross Sect.	Conductor		Current-Carrying Capacity at 30°C		Inductance	Short circuit current at 1 sec Max.
	DC Resistance at 20°C Max.	AC Resistance at 90°C Max.	in air Max.	in ground Max.		
(mm ²)	(Ω /km)	(Ω /km)	(A)	(A)	(mH/km)	(kA)
1.5	12.1	15.4	25	29	0.316	0.21
2.5	7.41	9.45	34	39	0.295	0.36
4	4.61	5.88	44	50	0.277	0.57
6	3.08	3.93	56	63	0.264	0.86
10	1.83	2.33	78	85	0.249	1.43
16	1.15	1.47	104	111	0.238	2.29
25	0.727	0.927	139	143	0.242	3.58
35	0.524	0.668	170	172	0.235	5.01
50	0.387	0.494	210	208	0.233	7.15
70	0.268	0.342	265	254	0.229	10.01
95	0.193	0.247	324	304	0.224	13.59
120	0.153	0.196	374	345	0.223	17.16
150	0.124	0.160	429	385	0.224	21.45
185	0.0991	0.128	492	434	0.225	26.46
240	0.0754	0.099	577	498	0.223	34.32
300	0.0601	0.080	656	557	0.221	42.90

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

N2XRY-FRC 4 x (1.5 - 300) mm²
Cu / Mica / XLPE / SWA / PVC
(Copper Conductor, Mica Tape, XLPE Insulated, Steel Wire Armor, PVC Sheathed)
Standard Specification : SNI IEC 60502-1 & IEC 60331

APPLICATION :

For wiring of fire resistant safety circuits, such as fire alarm system, emergency lighting and power, public address and emergency voice communication systems in highrise building, control and instrumentation services in industrial, commercial and residential complexes. Suitable as heat resistant cable for high temperature.

Special Features on Request

- Fire Resistance
- Flame Retardant Non Category
- Flame Retardant Cat. A, B, C
- Heat Resistance
- Oil Resistance
- UV Resistance
- Anti Termite
- Anti Rodent

Note :
Conductor Shaped

1.5 - 10 sqmm supplied in solid (re) or circular stranded (rm)

conductor shape

16 sqmm supplied in non compact circular stranded (rm) conductor shape

25 - 35 sqmm supplied in compacted circular stranded (cm)

conductor shape

50 - 300 sqmm supplied in compacted circular stranded or sector shaped stranded (sm) conductor

Standard Packing

1.5 - 70 sqmm supplied in wooden drum @ 1000 m

95 sqmm and above will be supplied in wooden drum on available length

Length Tolerance per drum $\pm 1.5\%$

Minimum Bending radius fixed installation

Multi core : 16 x D

D is overall diameter of cable

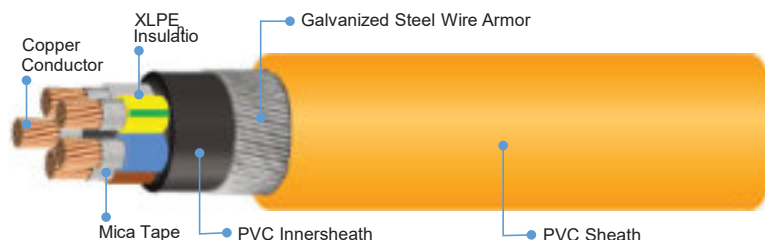
Construction Data

Nom.Cross Sect.	mm ²	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
Overall diameter (Approx.)	mm	19.5	20.5	22.5	24.5	26.5	28.0	31.5	35.0	38.5	43.5	49.0	53.5	58.5	64.0	70.5	78.5
Bending radius	mm	234	246	270	294	318	336	378	420	462	522	588	642	702	768	846	942
Cable Weight (Approx.)	kg/km	699	794	1038	1208	1490	1761	2362	3116	3873	5018	6789	8119	9694	11644	14496	18377

Electrical Data

Conductor			Current-Carrying Capacity at 30°C		Inductance	Short circuit current at 1 sec Max.
Nom. Cross Sect.	DC Resistance at 20°C Max.	AC Resistance at 90°C Max.				
(mm ²)	(Ω/km)	(Ω/km)	in air Max.	in ground Max.	(mH/km)	(kA)
1.5	12.1	15.4	28	33	0.316	0.21
2.5	7.41	9.45	37	43	0.295	0.36
4	4.61	5.88	49	55	0.277	0.57
6	3.08	3.93	63	69	0.264	0.86
10	1.83	2.33	86	92	0.249	1.43
16	1.15	1.47	116	121	0.238	2.29
25	0.727	0.927	155	156	0.242	3.58
35	0.524	0.668	190	186	0.235	5.01
50	0.387	0.494	221	213	0.233	7.15
70	0.268	0.342	278	259	0.229	10.01
95	0.193	0.247	341	311	0.224	13.59
120	0.153	0.196	396	352	0.223	17.16
150	0.124	0.160	457	397	0.224	21.45
185	0.0991	0.128	519	444	0.225	26.46
240	0.0754	0.099	608	509	0.223	34.32
300	0.0601	0.080	690	568	0.221	42.90

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

N2XRY-FRC 5 x (1.5 - 50) mm²
Cu / Mica / XLPE / SWA / PVC
(Copper Conductor, Mica Tape, XLPE Insulated, Steel Wire Armor, PVC Sheathed)
Standard Specification : SNI IEC 60502-1 & IEC 60331

APPLICATION :

For wiring of fire resistant safety circuits, such as fire alarm system, emergency lighting and power, public address and emergency voice communication systems in highrise building, control and instrumentation services in industrial, commercial and residential complexes. Suitable as heat resistant cable for high temperature.

Special Features on Request

- Fire Resistance
- Flame Retardant Non Category
- Flame Retardant Cat. A, B, C
- Heat Resistance
- Oil Resistance
- UV Resistance
- Anti Termite
- Anti Rodent

Note :
Conductor Shaped

1.5 - 10 sqmm supplied in solid (re) or circular stranded (rm)

conductor shape

16 sqmm supplied in non compact circular stranded (rm) conductor shape

25 - 50 sqmm supplied in compacted circular stranded (cm)

conductor shape

Standard Packing

1.5 - 50 sqmm supplied in wooden drum @ 1000 m

Length Tolerance per drum $\pm 1.5\%$

Minimum Bending radius fixed installation

Multi core : $16 \times D$

D is overall diameter of cable

Construction Data

Nom.Cross Sect.	mm ²	1.5	2.5	4	6	10	16	25	35	50
Overall diameter (Approx.)	mm	21.0	23.0	24.0	26.0	29.0	30.5	35.0	38.5	42.0
Bending radius	mm	252	276	288	312	348	366	420	462	504
Cable Weight (Approx.)	kg/km	793	1025	1189	1388	1737	2084	3015	3716	4708

Electrical Data

Nom. Cross Sect.	Conductor		Current-Carrying Capacity at 30°C		Inductance	Short circuit current at 1 sec Max.
	DC Resistance at 20°C Max.	AC Resistance at 90°C Max.	in air Max.	in ground Max.		
(mm ²)	(Ω/km)	(Ω/km)	(A)	(A)	(mH/km)	(kA)
1.5	12.1	15.4	29	33	0.316	0.21
2.5	7.41	9.45	38	43	0.295	0.36
4	4.61	5.88	51	56	0.277	0.57
6	3.08	3.93	65	70	0.264	0.86
10	1.83	2.33	89	94	0.249	1.43
16	1.15	1.47	120	122	0.238	2.29
25	0.727	0.927	161	158	0.242	3.58
35	0.524	0.668	197	189	0.235	5.01
50	0.387	0.494	239	222	0.233	7.15

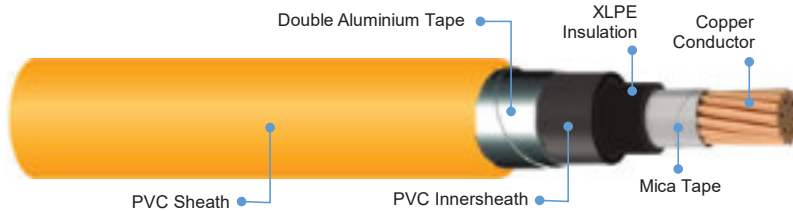
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

N2XB(AL)Y-FRC 1 x (25 - 630) mm²

Cu / Mica / XLPE / DATA / PVC

(Copper Conductor, Mica Tape, XLPE Insulated, Double Aluminium Tape Armor, PVC Sheathed)

Standard Specification : SNI IEC 60502-1 & IEC 60331



APPLICATION :

For wiring of fire resistant safety circuits, such as fire alarm system, emergency lighting and power, public address and emergency voice communication systems in highrise building, control and instrumentation services in industrial, commercial and residential complexes. Suitable as heat resistant cable for high temperature.

Special Features on Request

- Fire Resistance
- Flame Retardant Non Category
- Flame Retardant Cat. A, B, C
- Heat Resistance
- Oil Resistance
- UV Resistance
- Anti Termite
- Anti Rodent

Standard Packing

25 - 630 sqmm supplied in wooden drum @ 1000 m
400 sqmm and above will be supplied in wooden drum on available length
Length Tolerance per drum $\pm 1.5\%$

Note :

Conductor Shaped

10 sqmm supplied in solid (re) or circular stranded (rm) conductor shape
16 sqmm supplied in non compact circular stranded (rm) conductor shape
25 - 630 sqmm supplied in non compact circular stranded (rm) or compacted circular stranded (cm) conductor shape

Minimum Bending radius fixed installation

Single core : $18 \times D$
D is overall diameter of cable

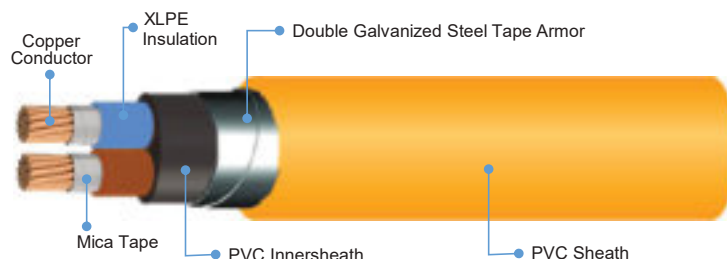
Construction Data

Nom.Cross Sect.	mm ²	25	35	50	70	95	120	150	185	240	300	400	500	630
Overall diameter (Approx.)	mm	16.9	18.0	19.4	21.5	23.5	25.5	27.5	30.0	33.0	36.0	39.5	44.0	48.5
Bending radius	mm	304	323	350	387	423	459	495	540	594	648	711	792	873
Cable Weight (Approx.)	kg/km	494	602	749	988	1254	1535	1823	2209	2864	3445	4358	5465	6968

Electrical Data

Conductor			Current-Carrying Capacity at 30°C				Inductance		Short circuit current at 1 sec Max.
Nom. Cross Sect.	DC Resistance at 20°C Max.	AC Resistance at 90°C Max.					Trefoil formation 	Flat formation 	
			in air Max.	in ground Max.	in air Max.	in ground Max.			
(mm²)	(Ω/km)	(Ω/km)	(A)	(A)	(A)	(A)	(mH/km)	(mH/km)	(kA)
25	0.727	0.927	154	153	158	157	0.385	0.431	3.58
35	0.524	0.668	188	183	193	188	0.366	0.412	5.01
50	0.387	0.494	229	217	235	223	0.348	0.394	7.15
70	0.268	0.342	287	265	295	272	0.331	0.377	10.01
95	0.193	0.247	352	317	361	324	0.316	0.362	13.59
120	0.153	0.196	407	359	418	367	0.307	0.353	17.16
150	0.124	0.160	465	402	476	410	0.302	0.348	21.45
185	0.0991	0.128	537	453	549	461	0.296	0.342	26.46
240	0.0754	0.099	636	523	648	529	0.287	0.333	34.32
300	0.0601	0.080	728	585	739	590	0.281	0.327	42.90
400	0.047	0.064	838	655	846	657	0.278	0.325	57.20
500	0.0366	0.052	960	731	964	728	0.273	0.319	71.50
630	0.0283	0.043	1092	807	1087	797	0.267	0.313	90.09

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

N2XBY-FRC 2 x (1.5 - 300) mm²
Cu / Mica / XLPE / DSTA / PVC
(Copper Conductor, Mica Tape, XLPE Insulated, Double Steel Tape Armor, PVC Sheathed)
Standard Specification : SNI IEC 60502-1 & IEC 60331

APPLICATION :

For wiring of fire resistant safety circuits, such as fire alarm system, emergency lighting and power, public address and emergency voice communication systems in highrise building, control and instrumentation services in industrial, commercial and residential complexes. Suitable as heat resistant cable for high temperature.

Special Features on Request

- Fire Resistance
- Flame Retardant Non Category
- Flame Retardant Cat. A, B, C
- Heat Resistance
- Oil Resistance
- UV Resistance
- Anti Termite
- Anti Rodent

Note :
Conductor Shaped

1.5 - 10 sqmm supplied in solid (re) or circular stranded (rm) conductor shape
16 sqmm supplied in non compact circular stranded (rm) conductor shape
25 - 300 sqmm supplied in non compact circular stranded (rm) or compacted circular stranded (cm) conductor shape

Standard Packing

1.5 - 150 sqmm supplied in wooden drum @ 1000 m
185 sqmm and above will be supplied in wooden drum on available length
Length Tolerance per drum $\pm 1.5\%$

Minimum Bending radius fixed installation

Multi core : $18 \times D$
D is overall diameter of cable

Construction Data

Nom.Cross Sect.	mm ²	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
Overall diameter (Approx.)	mm	15.6	16.5	17.6	19.1	21.0	22.5	25.5	27.5	30.5	35.0	39.5	43.5	48.5	53.0	58.5	64.0
Bending radius	mm	281	297	317	344	378	405	459	495	549	630	711	783	873	954	1053	1152
Cable Weight (Approx.)	kg/km	336	387	456	543	694	831	1130	1408	1738	2386	3391	4056	4964	5944	7407	9001

Electrical Data

Nom. Cross Sect.	Conductor		Current-Carrying Capacity at 30°C		Inductance	Short circuit current at 1 sec Max.
	DC Resistance at 20°C Max.	AC Resistance at 90°C Max.	in air Max.	in ground Max.		
(mm ²)	(Ω/km)	(Ω/km)	(A)	(A)	(mH/km)	(kA)
1.5	12.1	15.4	29	34	0.315	0.21
2.5	7.41	9.45	39	45	0.293	0.36
4	4.61	5.88	51	59	0.275	0.57
6	3.08	3.93	65	74	0.263	0.86
10	1.83	2.33	89	100	0.248	1.43
16	1.15	1.47	118	130	0.238	2.29
25	0.727	0.927	157	167	0.240	3.58
35	0.524	0.668	193	201	0.233	5.01
50	0.387	0.494	233	239	0.232	7.15
70	0.268	0.342	295	293	0.229	10.01
95	0.193	0.247	360	350	0.224	13.59
120	0.153	0.196	423	401	0.223	17.16
150	0.124	0.160	482	449	0.224	21.45
185	0.0991	0.128	551	505	0.225	26.46
240	0.0754	0.099	652	584	0.223	34.32
300	0.0601	0.080	744	656	0.221	42.90

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

N2XBY-FRC 3 x (1.5 - 300) mm²

Cu / Mica / XLPE / DSTA / PVC

(Copper Conductor, Mica Tape, XLPE Insulated, Double Steel Tape Armor, PVC Sheathed)

Standard Specification : SNI IEC 60502-1 & IEC 60331



APPLICATION :

For wiring of fire resistant safety circuits, such as fire alarm system, emergency lighting and power, public address and emergency voice communication systems in highrise building, control and instrumentation services in industrial, commercial and residential complexes. Suitable as heat resistant cable for high temperature.

Special Features on Request

- Fire Resistance
- Flame Retardant Non Category
- Flame Retardant Cat. A, B, C
- Heat Resistance
- Oil Resistance
- UV Resistance
- Anti Termite
- Anti Rodent

Note :

Conductor Shaped

1.5 - 10 sqmm supplied in solid (re) or circular stranded (rm) conductor shape
16 sqmm supplied in non compact circular stranded (rm) conductor shape
25 - 35 sqmm supplied in compacted circular stranded (cm) conductor shape
50 - 300 sqmm supplied in compacted circular stranded or sector shaped stranded (sm) conductor

Standard Packing

1.5 - 95 sqmm supplied in wooden drum @ 1000 m
120 sqmm and above will be supplied in wooden drum on available length
Length Tolerance per drum $\pm 1.5\%$

Minimum Bending radius fixed installation

Multi core : $18 \times D$
D is overall diameter of cable

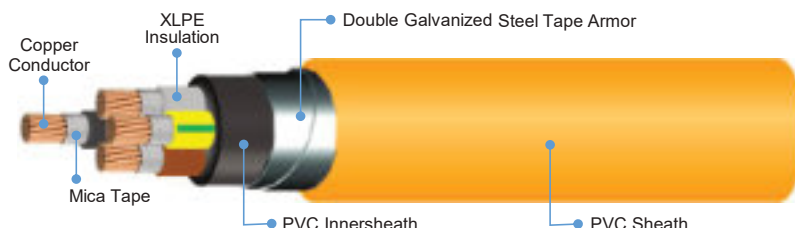
Construction Data

Nom.Cross Sect.	mm ²	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
Overall diameter (Approx.)	mm	16.3	17.3	18.5	20.5	22.5	23.5	27.0	29.5	32.5	38.5	42.0	46.0	51.5	56.5	62.5	68.5
Bending radius	mm	293	311	333	369	405	423	486	531	585	693	756	828	927	1017	1125	1233
Cable Weight (Approx.)	kg/km	371	433	517	624	813	998	1382	1745	2168	3346	4251	5122	6268	7573	9633	11670

Electrical Data

Conductor			Current-Carrying Capacity at 30°C		Inductance	Short circuit current at 1 sec Max.
Nom. Cross Sect.	DC Resistance at 20°C Max.	AC Resistance at 90°C Max.	in air Max.	in ground Max.		
(mm ²)	(Ω /km)	(Ω /km)	(A)	(A)	(mH/km)	(kA)
1.5	12.1	15.4	25	29	0.315	0.21
2.5	7.41	9.45	33	38	0.293	0.36
4	4.61	5.88	43	50	0.275	0.57
6	3.08	3.93	55	62	0.263	0.86
10	1.83	2.33	75	84	0.248	1.43
16	1.15	1.47	100	109	0.238	2.29
25	0.727	0.927	133	140	0.240	3.58
35	0.524	0.669	164	169	0.233	5.01
50	0.387	0.494	202	205	0.232	7.15
70	0.268	0.343	255	250	0.229	10.01
95	0.193	0.247	312	299	0.224	13.59
120	0.153	0.197	366	342	0.223	17.16
150	0.124	0.160	418	382	0.224	21.45
185	0.0991	0.129	483	433	0.225	26.46
240	0.0754	0.099	569	499	0.223	34.32
300	0.0601	0.081	652	561	0.221	42.90

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

N2XBY-FRC 4 x (1.5 - 300) mm²
Cu / Mica / XLPE / DSTA / PVC
(Copper Conductor, Mica Tape, XLPE Insulated, Double Steel Tape Armor, PVC Sheathed)
Standard Specification : SNI IEC 60502-1 & IEC 60331

APPLICATION :

For wiring of fire resistant safety circuits, such as fire alarm system, emergency lighting and power, public address and emergency voice communication systems in highrise building, control and instrumentation services in industrial, commercial and residential complexes. Suitable as heat resistant cable for high temperature.

Special Features on Request

- Fire Resistance
- Flame Retardant Non Category
- Flame Retardant Cat. A, B, C
- Heat Resistance
- Oil Resistance
- UV Resistance
- Anti Termite
- Anti Rodent

Note :
Conductor Shaped

1.5 - 10 sqmm supplied in solid (re) or circular stranded (rm) conductor shape
 16 sqmm supplied in non compact circular stranded (rm) conductor shape
 25 - 35 sqmm supplied in compacted circular stranded (cm) conductor shape
 50 - 300 sqmm supplied in compacted circular stranded or sector shaped stranded (sm) conductor

Standard Packing

1.5 - 95 sqmm supplied in wooden drum @ 1000 m
 120 sqmm and above will be supplied in wooden drum on available length
 Length Tolerance per drum $\pm 1.5\%$

Minimum Bending radius fixed installation

Multi core : 18 x D
 D is overall diameter of cable

Construction Data

Nom.Cross Sect.	mm ²	1.5	2.5	4	6	10	16	25	35	50	70	95	120	150	185	240	300
Overall diameter (Approx.)	mm	17.6	18.7	20.0	22.0	24.5	25.5	29.5	32.5	37.0	42.5	46.5	51.5	57.0	62.5	69.5	75.5
Bending radius	mm	317	337	360	396	441	459	531	585	666	765	837	927	1026	1125	1251	1359
Cable Weight (Approx.)	kg/km	423	499	603	734	970	1206	1689	2164	3115	4163	5334	6547	7897	9698	12255	14895

Electrical Data

Nom. Cross Sect.	Conductor		Current-Carrying Capacity at 30°C		Inductance	Short circuit current at 1 sec Max.
	DC Resistance at 20°C Max.	AC Resistance at 90°C Max.	in air Max.	in ground Max.		
(mm ²)	(Ω /km)	(Ω /km)	(A)	(A)	(mH/km)	(kA)
1.5	12.1	15.4	27	32	0.315	0.21
2.5	7.41	9.45	36	42	0.293	0.36
4	4.61	5.88	48	55	0.275	0.57
6	3.08	3.93	60	68	0.263	0.86
10	1.83	2.33	83	91	0.248	1.43
16	1.15	1.47	110	118	0.238	2.29
25	0.727	0.927	148	152	0.240	3.58
35	0.524	0.669	183	183	0.233	5.01
50	0.387	0.494	214	210	0.232	7.15
70	0.268	0.343	269	256	0.229	10.01
95	0.193	0.247	334	309	0.224	13.59
120	0.153	0.197	386	350	0.223	17.16
150	0.124	0.160	449	395	0.224	21.45
185	0.0991	0.129	512	444	0.225	26.46
240	0.0754	0.099	604	513	0.223	34.32
300	0.0601	0.081	692	577	0.221	42.90

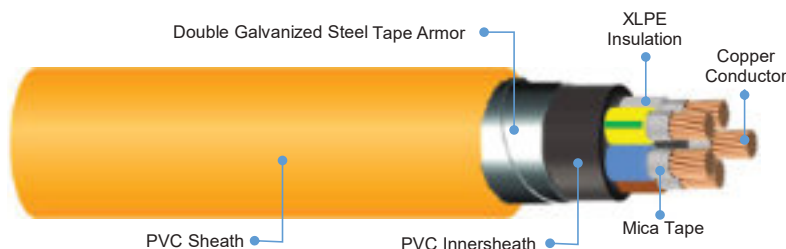
* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

N2XBY-FRC 5 x (1.5 - 50) mm²

Cu / Mica / XLPE / DSTA / PVC

(Copper Conductor, Mica Tape, XLPE Insulated, Double Steel Tape Armor, PVC Sheathed)

Standard Specification : SNI IEC 60502-1 & IEC 60331



APPLICATION :

For wiring of fire resistant safety circuits, such as fire alarm system, emergency lighting and power, public address and emergency voice communication systems in highrise building, control and instrumentation services in industrial, commercial and residential complexes. Suitable as heat resistant cable for high temperature.

Special Features on Request

- Fire Resistance
- Flame Retardant Non Category
- Flame Retardant Cat. A, B, C
- Heat Resistance
- Oil Resistance
- UV Resistance
- Anti Termite
- Anti Rodent

Note :

Conductor Shaped

1.5 - 10 sqmm supplied in solid (re) or circular stranded (rm)

conductor shape

16 sqmm supplied in non compact circular stranded (rm) conductor shape

25 - 50 sqmm supplied in compacted circular stranded (cm)

conductor shape

Standard Packing

1.5 - 50 sqmm supplied in wooden drum @ 1000 m
Length Tolerance per drum ± 1.5%

Minimum Bending radius fixed installation

Multi core : 18 x D

D is overall diameter of cable

Construction Data

Nom.Cross Sect.	mm ²	1.5	2.5	4	6	10	16	25	35	50
Overall diameter (Approx.)	mm	19.0	20.0	21.5	23.5	26.0	27.5	31.5	34.5	39.5
Bending radius	mm	342	360	387	423	468	495	567	621	711
Cable Weight (Approx.)	kg/km	521	609	732	893	1182	1490	2111	2727	3984

Electrical Data

Electrical Data						
Nom. Cross Sect.	Conductor		Current-Carrying Capacity at 30°C		Inductance	Short circuit current at 1 sec Max.
	DC Resistance at 20°C Max.	AC Resistance at 90°C Max.				
			in air Max.	in ground Max.		
(mm ²)	(Ω/km)	(Ω/km)	(A)	(A)	(mH/km)	(kA)
1.5	12.1	15.4	29	33	0.316	0.21
2.5	7.41	9.45	38	43	0.295	0.36
4	4.61	5.88	51	56	0.277	0.57
6	3.08	3.93	65	70	0.264	0.86
10	1.83	2.33	89	94	0.249	1.43
16	1.15	1.47	120	122	0.238	2.29
25	0.727	0.927	161	158	0.242	3.58
35	0.524	0.668	197	189	0.235	5.01
50	0.387	0.494	239	222	0.233	7.15

* Further information about rating factor for certain cable arrangement can be found on supplementary technical information

QUALITY

In achieving a standard of excellence in delivering products and services, LSAG Cable Indonesia continues implementing quality management system and obtaining certifications for domestic and international standards.



LSAG Cable Indonesia is certified with ISO 9001:2015 and ISO 14001:2015 for quality excellence. All products are manufactured using the latest technology, designed according to the applicable standards and requirements, and developed by trained and professional people to ensure our customer satisfaction.

SNI Certificate



ISO Certificate



SMK3 Certificate



BUSINESS AREAS

LS Cable & System supplies various cables and materials used for power grids and communication networks around the world across all industries providing its top class technology and excellent quality.

The company has also developed state of the art products, such as superconductors, HVDC and submarine cables that will lead the future energy industry.

Energy

- Extra High Voltage Cable / HVDC Cable
- Super Conducting Cable
- Submarine Cable
- High Capacity Conductor
- Flame Retardant Water Resistance Cable
- Bus Duct



Telecommunication

- Optical Cable
- Structured Cabling System
- RF Feeder System

Industrial Materials

- Copper Rod
- Magnetic Wire



Industrial Cable

- Industrial Devices & FA Cable
- Automotive Wire & Cable, Tubes
 - Marine & Offshore Cable
- Railway & Rolling Stock Cable
- Wind Power & Photovoltaic Cable

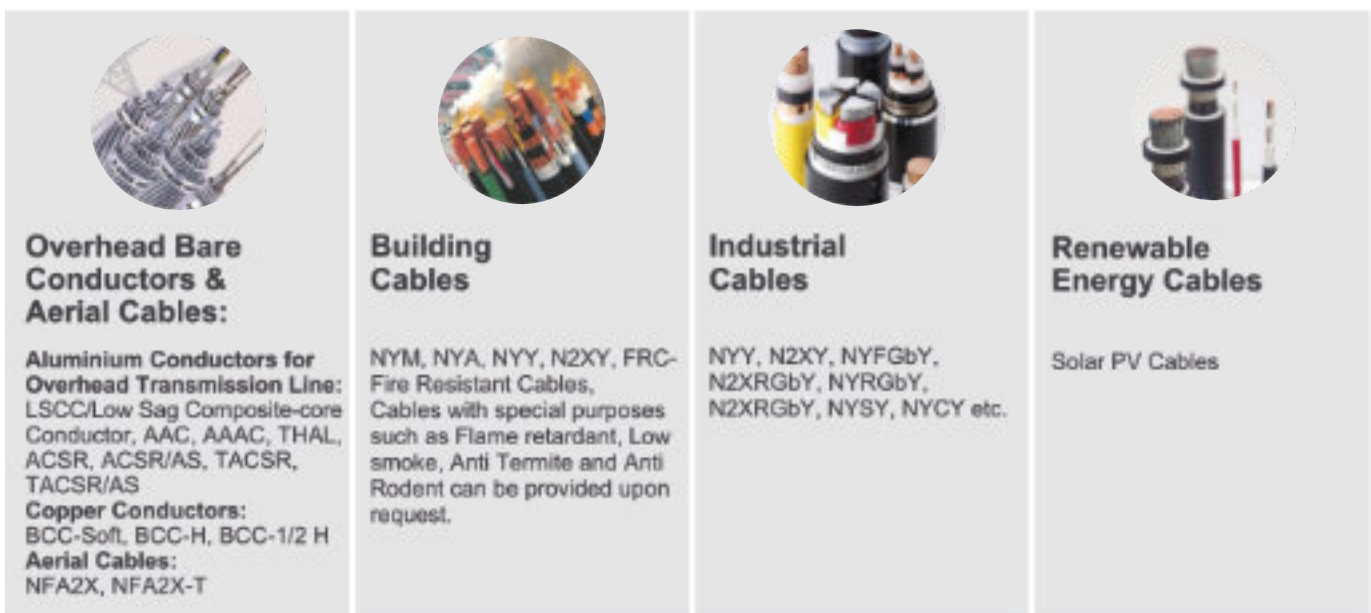
SEGMENT

PT. LSAG Cable Indonesia cable products can be widely used in below several market sectors



PRODUCTS

PT. LSAG Cable Indonesia produces a wide range of Low Voltage Power Cables as below:



LS CABLE & SYSTEM'S EXISTING CLIENTS IN INDONESIA

LS Cable & Systems has supplied its products to below Indonesia customers such as High Voltage Underground Cable system (70.kV 150kV and 500kV), Submarine Cables (5kV, 20kV, 70kV and 150kV), OPGW, HTLS/LSCC, Fiber Optic, UTP Data Cables, Shipboard Cables, Rolling Stock Cables and Busduct system.



GLOBAL NETWORK



KOREA



Gumi Plant

EHV/MV/LV cable
UTP, Coaxial cable
SCR, Magnet wire
Overhead cable, Bus duct



Indong Plant

Optical Fiber
Optical cable



Donghae Plant

Submarine cable
Industrial specialty cable

CHINA



LSHQ (Yichang)

EHV/MV/LV cable
Industrial specialty cable



LSCW (Wuxi)

Industrial devices cable
Automotive cable
Harness & module
Aluminium, Bus duct



VIETNAM



LS-VINA (Haiphong)

EHV/MV/LV cable
SCR, ACSR
Overhead cable



LSCV (HO Chi Minh)

MV/LV cable
UTP, Optical Cable
Overhead cable

INDIA



LSCI (Bawal)

EHV/MV/LV cable
Coaxial Cable
Overhead cable

USA



LSCUS (Tarboro)

MV/LV cable
Control, Instrument Cable

POLAND



LS EV Poland/LSCP (Dzierzonow)

Automotive battery components
Optical cable

LS-AG Cable Indonesia



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