



JEMBO CABLE



CATALOGUE



MEDIUM VOLTAGE CABLE



www.jembo.co.id



TOGETHER WE GROW

PT JEMBO CABLE COMPANY Tbk.

COMPANY BACKGROUND

PT Jembo Cable Company Tbk. is a publicly held company which manufactures multiple lines of power and telecommunication cable products allowing to better service its three major markets:



Infrastructure



Industries



Building and
Construction

Since its incorporation in April 1973, PT Jembo Cable Company Tbk., continuously added its product variety, starting from Copper Conductor Low Voltage Electrical Cable, followed by Aluminum Conductor Low Voltage Cable, then Medium Voltage Cable, and later on Telecommunication Cable and Fiber Optic Cable, Fire Resistant Cable, Instrumentation Cable, Airfield Lighting Cable, Marine Cable (Offshore) and also Metal Corrugated Cable.

On 18 November 1992, the Company for the first time, listed its shares in the Jakarta Stock Exchange (currently Indonesian Stock Exchange). In the same year, to develop and improve its technology, the Company entered into a cooperation agreement in the technical field with Fujikura Ltd., one of the foremost cable company from Japan. In 1993, the Company became the pioneer on production of fiber optic cable in Indonesia.

Quality is the most important thing for the Company and it is closely integrated into the Company's daily performance. To continue to support and maintain the quality of goods and services, the Company has invested heavily by providing equipment and supplies in the field of Quality Control and in an effort to improve and maintain the quality of goods and services, the Company has obtained ISO 9002 certificate from TUV Product Service GmbH in 1995 and ISO 9001 certificate in 2000, then continuously renewed until the ISO 9001:2015 certificate issued by TUV Rheinland in 2018.

In December 2007, the Company obtained a ISO 14001:2004 certificate for Environment Management System, which was later renewed by ISO 14001:2015 certificate in 2018. In April 2021, the Company updated the Occupational Health and Safety Management System standard from OHSAS 18001:2007 to ISO 45001:2018, certificate issued by TUV Rheinland.

By improvement and experience of more than 45 years, and the spirit of "TOGETHER WE GROW", the Company is able to become a foremost producer in the wire and cable industry.

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N2XSY NA2XSY

SINGLE - CORE CABLE

WITH WATER BLOCKING TECHNOLOGY,
COPPER OR ALUMINIUM CONDUCTOR, XLPE INSULATED
COPPER WIRE & TAPE SCREENED AND PVC SHEATHED

Specification:

SPLN 43-5-3

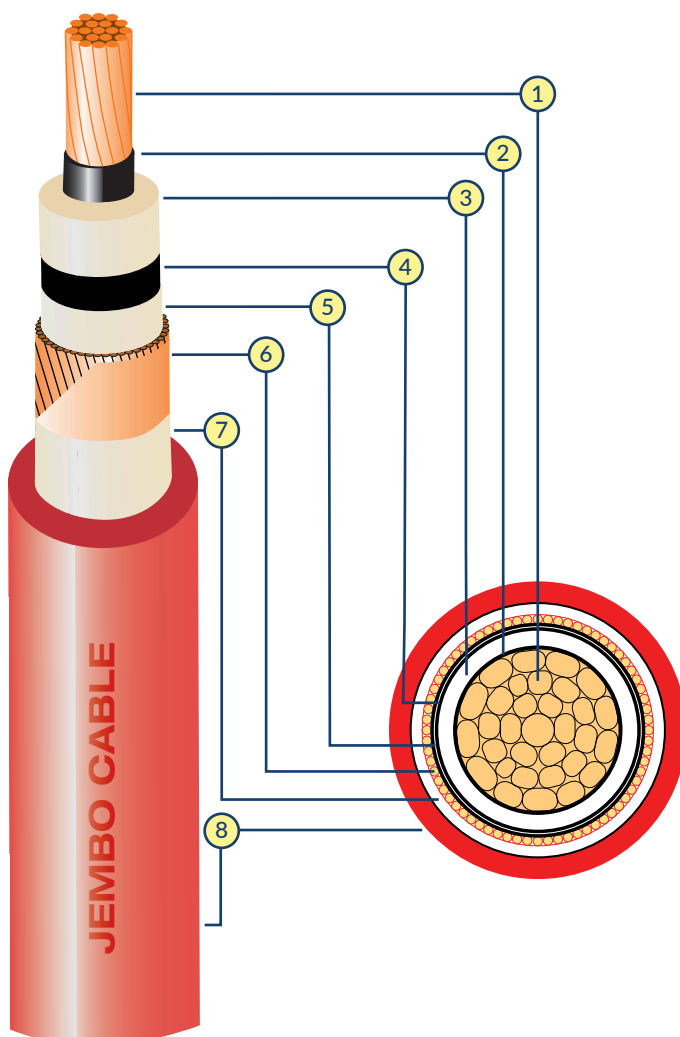
Application:

Suitable for Distribution Indoor and
Outdoor Installation, in conduit,
throughs or on Trays

Rated Voltage:

3.6/6 kV (7.2 kV)	12/20 kV (24 kV)
6/10 kV (12 kV)	18/30 kV (36 kV)
8.7/15 kV (17.5 kV)	

CONSTRUCTION



- | | |
|----------------------|---|
| 1. Conductor | : Copper or Aluminium (Compact Circular Stranded) |
| 2. Conductor Screen | : Extruded Semiconductive Compound |
| 3. Insulation | : Extruded Crosslinked Polyethylene (XLPE) |
| 4. Insulation Screen | : Extruded Strippable Semiconductive Compound |
| 5. Water Blocking | : Helically Overlapped Semiconductive Water Blocking Tape |
| 6. Metallic Screen | : Copper Wire & Tape |
| 7. Water Blocking | : Helically Overlapped Non-conductive Water Blocking Tape |
| 8. Sheath | : Extruded PVC 90°C |

Special Features on Request:

- Oil Resistance
- Flame Retardant Category A,B,C
- Flame Retardant Non Category
- Nylon Coated
- Low Smoke Zero Halogen

N2XSY

NA2XSY

Nominal Voltage : 3.6/6 kV
 Maximum System Voltage : 7.2 kV
 Specification : SPLN 43-5-3
 Other specifications are available on request

COPPER CONDUCTOR

Nominal Cross Sectional Area			mm ²	25	35	50	70	95	120	150	185	240	300	400	500	630
Conductor	Approx. Diameter		mm	5.8	6.9	8.0	9.6	11.3	12.7	14.1	15.8	18.1	20.3	22.9	26.0	29.6
	Max.DC Resistance at 20°C		Ohm/km	0.727	0.524	0.387	0.268	0.193	0.153	0.124	0.0991	0.0754	0.0601	0.0470	0.0366	0.0283
Insulation	Nominal Thickness		mm	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.6	2.8	3.0	3.2	3.2
	Min. Resistance at 20°C		M. Ohm.km	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
Sheath	Nominal Thickness		mm	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.1
Overall Diameter Approx.			mm	23.2	24.2	25.3	26.9	28.6	30.0	31.4	33.1	35.6	38.2	42.6	46.1	49.9
Cable Net. Weight Approx.			kg/km	772	882	1019	1242	1515	1767	2125	2488	3059	3671	4608	5672	7058
Standard Length per Reel			m	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	500	500	500
Minimum Bending Radius			mm	418	436	455	484	515	540	565	596	641	688	767	830	898
Capacitance at 50 Hz			µF/km	0.093	0.101	0.111	0.124	0.138	0.149	0.160	0.173	0.189	0.202	0.206	0.223	0.244
Inductance at 50 Hz			mH/km	0.428	0.403	0.380	0.356	0.335	0.321	0.309	0.297	0.284	0.276	0.273	0.264	0.254
Max. Current Carrying Capacity		In Air at 30°C	A	161	194	233	291	353	406	459	526	620	728	814	920	1006
		In Ground at 30°C	A	150	179	210	257	307	348	388	438	506	568	637	717	779
		In Air at 30°C	A	190	230	276	344	417	480	536	611	715	810	900	1005	1087
		In Ground at 30°C	A	171	203	238	290	343	387	422	472	539	601	648	774	818
Short Circuit Current at 1 sec			kA	3.41	4.73	6.41	9.25	12.85	16.21	20.00	25.03	32.89	41.27	52.77	67.76	87.64
AC Voltage Test			kV/5 min	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5

ALUMINIUM CONDUCTOR

Nominal Cross Sectional Area			mm²	35	50	70	95	120	150	185	240	300	400	500	630
Conductor	Approx. Diameter		mm	6.8	7.9	9.6	11.2	12.7	14.0	15.7	18.0	20.1	22.8	25.9	29.4
	Max.DC Resistance at 20°C		Ohm/km	0.868	0.641	0.443	0.32	0.253	0.206	0.164	0.125	0.1	0.0778	0.0605	0.0605
Insulation	Nominal Thickness		mm	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.6	2.8	3.0	3.2	3.2
	Min. Resistance at 20°C		M. Ohm.km	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
Sheath	Nominal Thickness		mm	3	3	3	3	3	3	3	3	3	3	3	3.1
Overall Diameter Approx.			mm	24.2	25.3	26.9	28.6	30	31.3	33.0	35.5	38.0	42.5	46	49.7
Cable Net. Weight Approx.			kg/km	672	734	832	944	1048	1234	1376	1597	1833	2266	2667	3166
Standard Length per Reel			m	1000	1000	1000	1000	1000	1000	1000	1000	1000	500	500	500
Minimum Bending Radius			mm	436	455	484	515	540	563	594	639	684	765	828	895
Capacitance at 50 Hz			µF/km	0.101	0.110	0.124	0.137	0.148	0.159	0.172	0.188	0.201	0.205	0.222	0.243
Inductance at 50 Hz			mH/km	0.404	0.381	0.357	0.336	0.322	0.310	0.298	0.285	0.276	0.273	0.264	0.254
Max. Current Carying Capacity		In Air at 30°C	A	150	180	216	274	316	358	411	488	558	650	743	803
		In Ground at 30°C	A	137	163	200	238	271	302	343	398	449	510	574	622
		In Air at 30°C	A	177	214	267	326	376	423	484	572	651	740	837	870
		In Ground at 30°C	A	156	185	226	269	304	335	376	434	486	536	614	654
Short Circuit Current at 1 sec			kA	3.17	4.29	6.20	8.59	10.86	13.34	16.76	21.99	27.49	35.33	45.43	45.43
AC Voltage Test			kV/5 min	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5

N2XSY

NA2XSY

Nominal Voltage : 6/10 kV
 Maximum System Voltage : 12 kV
 Specification : SPLN 43-5-3
 Other specifications are available on request

COPPER CONDUCTOR

Nominal Cross Sectional Area		mm ²	25	35	50	70	95	120	150	185	240	300	400	500	630	
Conductor	Approx. Diameter	mm	5.8	6.9	8.0	9.6	11.3	12.7	14.1	15.8	18.1	20.3	22.9	26.0	29.6	
	Max.DC Resistance at 20°C	Ohm/km	0.727	0.524	0.387	0.268	0.193	0.153	0.124	0.0991	0.0754	0.0601	0.0470	0.0366	0.0283	
Insulation	Nominal Thickness	mm	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	
	Min. Resistance at 20°C	M. Ohm.km	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	2000	2000	
Sheath	Nominal Thickness	mm	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.1	
Overall Diameter Approx.		mm	25	26	27.1	28.7	30.4	31.8	33.2	34.9	37.2	39.4	43.4	46.5	50.3	
Cable Net. Weight Approx.		kg/km	837	950	1090	1317	1595	1850	2212	2580	3146	3740	4658	5698	7087	
Standard Length per Reel		m	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	500	500	300	
Minimum Bending Radius		mm	450	468	488	517	547	572	598	628	670	709	781	837	905	
Capacitance at 50 Hz		µF/km	0.088	0.096	0.105	0.117	0.129	0.139	0.149	0.161	0.177	0.192	0.200	0.220	0.240	
Inductance at 50 Hz		mH/km	0.443	0.418	0.394	0.369	0.347	0.333	0.320	0.308	0.293	0.282	0.277	0.265	0.255	
Max. Current Carrying Capacity		In Air at 30°C	A	162	195	234	292	354	407	460	527	621	729	815	921	1007
		In Ground at 30°C	A	151	180	211	258	308	349	389	439	507	569	638	718	780
		In Air at 30°C	A	191	231	277	345	418	481	537	612	716	811	901	1006	1088
		In Ground at 30°C	A	172	204	239	291	344	388	423	473	540	601	649	774	819
Short Circuit Current at 1 sec		kA	3.41	4.73	6.41	9.25	12.85	16.21	20.00	25.03	32.89	41.27	52.77	67.76	87.64	
AC Voltage Test		kV/5 min	21	21	21	21	21	21	21	21	21	21	21	21	21	

ALUMINIUM CONDUCTOR

Nominal Cross Sectional Area			mm²	35	50	70	95	120	150	185	240	300	400	500	630
Conductor	Approx. Diameter		mm	6.8	7.9	9.6	11.2	12.7	14.0	15.7	18.0	20.1	22.8	25.9	29.4
	Max.DC Resistance at 20°C		Ohm/km	0.868	0.641	0.443	0.32	0.253	0.206	0.164	0.125	0.10	0.0778	0.0605	0.0469
Insulation	Nominal Thickness		mm	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
	Min. Resistance at 20°C		M. Ohm.km	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	2000	2000
Sheath	Nominal Thickness		mm	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.1
Overall Diameter Approx.			mm	26	27.1	28.7	30.4	31.8	33.1	34.8	37.1	39.2	43.3	46.4	50.1
Cable Net. Weight Approx.			kg/km	740	805	907	1024	1131	1321	1468	1684	1902	2316	2693	3195
Standard Length per Reel			m	1000	1000	1000	1000	1000	1000	1000	1000	1000	500	500	300
Minimum Bending Radius			mm	468	488	517	547	572	596	626	668	706	779	835	902
Capacitance at 50 Hz			µF/km	0.096	0.104	0.116	0.128	0.139	0.149	0.161	0.177	0.191	0.199	0.219	0.239
Inductance at 50 Hz			mH/km	0.419	0.395	0.370	0.349	0.334	0.321	0.308	0.294	0.283	0.277	0.266	0.256
Max. Current Carrying Capacity		In Air at 30°C	A	151	181	217	275	317	359	412	489	559	651	744	804
		In Ground at 30°C	A	138	164	201	239	272	303	344	399	450	511	574	623
		In Air at 30°C	A	178	215	268	327	377	424	485	573	652	741	838	871
		In Ground at 30°C	A	157	186	227	270	305	336	377	434	487	537	615	655
Short Circuit Current at 1 sec			kA	3.17	4.29	6.20	8.59	10.86	13.34	16.76	21.99	27.49	35.33	45.43	58.61
AC Voltage Test			kV/5 min	21	21	21	21	21	21	21	21	21	21	21	21

N2XSY

NA2XSY

Nominal Voltage : 8.7/15 kV
 Maximum System Voltage : 17.5 kV
 Specification : SPLN 43-5-3
 Other specifications are available on request

COPPER CONDUCTOR

Nominal Cross Sectional Area			mm ²	35	50	70	95	120	150	185	240	300	400	500
Conductor	Approx. Diameter		mm	6.9	8.0	9.6	11.3	12.7	14.1	15.8	18.1	20.3	22.9	26.0
	Max.DC Resistance at 20°C		Ohm/km	0.524	0.387	0.268	0.193	0.153	0.124	0.0991	0.0754	0.0601	0.047	0.0366
Insulation	Nominal Thickness		mm	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
	Min. Resistance at 20°C		M.Ohm.km	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000
Sheath	Nominal Thickness		mm	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Overall Diameter Approx.			mm	28.2	29.3	30.9	32.6	34.0	35.4	37.1	39.4	41.6	45.6	48.7
Cable Net. Weight Approx.			kg/km	1040	1183	1416	1699	1958	2325	2698	3271	3873	4799	5850
Standard Length per Reel			m	1000	1000	1000	1000	1000	1000	1000	1000	500	500	500
Minimum Bending Radius			mm	508	527	556	587	612	637	668	709	749	821	877
Capacitance at 50 Hz			µF/km	0.090	0.098	0.109	0.121	0.130	0.139	0.150	0.164	0.178	0.186	0.203
Inductance at 50 Hz			mH/km	0.434	0.410	0.384	0.361	0.346	0.333	0.320	0.305	0.293	0.286	0.275
Max. Current Carying Capacity		In Air at 30°C	A	199	238	296	358	412	466	532	627	715	819	927
		In Ground at 30°C	A	181	214	262	312	353	394	445	513	577	647	720
		In Air at 30°C	A	233	279	347	420	483	540	614	718	813	904	1011
		In Ground at 30°C	A	205	240	292	347	391	427	478	546	608	659	776
Short Circuit Current at 1 sec			kA	4.73	6.41	9.25	12.85	16.21	20.00	25.03	32.89	41.27	52.77	67.76
AC Voltage Test			kV/5 min	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5

ALUMINIUM CONDUCTOR

Nominal Cross Sectional Area		mm ²	50	70	95	120	150	185	240	300	400	500	630	
Conductor	Approx. Diameter	mm	7.9	9.6	11.2	12.7	14.0	15.7	18.0	20.1	22.8	25.9	29.4	
	Max.DC Resistance at 20°C	Ohm/km	0.641	0.443	0.32	0.253	0.206	0.164	0.125	0.1	0.0778	0.0605	0.0469	
Insulation	Nominal Thickness	mm	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	
	Min. Resistance at 20°C	MOhm.km	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	
Sheath	Nominal Thickness	mm	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.2	
Overall Diameter Approx.		mm	29.3	30.9	32.6	34.0	35.3	37.0	39.3	41.4	45.5	48.6	52.5	
Cable Net. Weight Approx.		kg/km	898	1005	1128	1239	1434	1586	1809	2034	2457	2844	3383	
Standard Length per Reel		m	1000	1000	1000	1000	1000	1000	1000	500	500	500	300	
Minimum Bending Radius		mm	527	556	587	612	635	666	707	745	819	875	945	
Capacitance at 50 Hz		µF/km	0.098	0.109	0.120	0.129	0.138	0.149	0.164	0.177	0.185	0.203	0.220	
Inductance at 50 Hz		mH/km	0.411	0.384	0.363	0.347	0.334	0.321	0.305	0.294	0.287	0.275	0.265	
Max. Current Carying Capacity		In Air at 30°C	A	184	229	278	320	363	415	493	563	652	746	806
		In Ground at 30°C	A	166	203	242	276	307	348	404	455	517	576	625
		In Air at 30°C	A	217	240	328	378	425	485	513	652	740	838	873
		In Ground at 30°C	A	187	228	271	307	339	380	439	491	543	617	657
Short Circuit Current at 1 sec		kA	4.29	6.20	8.59	10.86	13.34	16.76	21.99	27.49	35.33	45.43	58.61	
AC Voltage Test		kV/5 min	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	

N2XSY

NA2XSY

Nominal Voltage : 12/20 kV
 Maximum System Voltage : 24 kV
 Specification : SPLN 43-5-3
 Other specifications are available on request

COPPER CONDUCTOR

Nominal Cross Sectional Area			mm²	35	50	70	95	120	150	185	240	300	400	500
Conductor	Approx. Diameter		mm	6.9	8.0	9.6	11.3	12.7	14.1	15.8	18.1	20.3	22.9	26.0
	Max.DC Resistance at 20°C		Ohm/km	0.524	0.387	0.268	0.193	0.153	0.124	0.0991	0.0754	0.0601	0.047	0.0366
Insulation	Nominal Thickness		mm	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	Min. Resistance at 20°C		M. Ohm.km	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000
Sheath	Nominal Thickness		mm	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Overall Diameter Approx.			mm	30.2	31.3	32.9	34.6	36.0	37.4	39.1	41.4	43.6	47.6	50.7
Cable Net. Weight Approx.			kg/km	1128	1274	1511	1800	2063	2434	2812	3392	4000	4934	5993
Standard Length per Reel			m	1000	1000	1000	1000	1000	1000	1000	500	500	500	300
Minimum Bending Radius			mm	544	563	592	623	648	673	704	745	785	857	913
Capacitance at 50 Hz			µF/km	0.086	0.094	0.104	0.114	0.123	0.131	0.141	0.154	0.167	0.175	0.191
Inductance at 50 Hz			mH/km	0.448	0.423	0.396	0.373	0.357	0.344	0.331	0.315	0.302	0.295	0.283
Max. Current Carrying Capacity		In Air at 30°C	A	199	238	296	358	412	466	532	627	715	819	927
		In Ground at 30°C	A	181	214	262	312	353	394	445	513	577	647	720
		In Air at 30°C	A	233	279	347	420	483	540	614	718	813	904	1011
		In Ground at 30°C	A	205	240	292	347	391	427	478	546	608	659	776
Short Circuit Current at 1 sec			kA	4.73	6.41	9.25	12.85	16.21	20.00	25.03	32.89	41.27	52.77	67.76
AC Voltage Test			kV/5 min	42	42	42	42	42	42	42	42	42	42	42

ALUMINIUM CONDUCTOR

Nominal Cross Sectional Area		mm ²	50	70	95	120	150	185	240	300	400	500	630
Conductor	Approx. Diameter	mm	7.9	9.6	11.2	12.7	14.0	15.7	18.0	20.1	22.8	25.9	29.4
	Max.DC Resistance at 20°C	Ohm/km	0.641	0.443	0.32	0.253	0.206	0.164	0.125	0.1	0.0778	0.0605	0.0469
Insulation	Nominal Thickness	mm	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	Min. Resistance at 20°C	M. Ohm.km	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000
Sheath	Nominal Thickness	mm	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.2
Overall Diameter Approx.		mm	31.3	32.9	34.6	36.0	37.3	39.0	41.3	43.4	47.5	50.6	54.5
Cable Net. Weight Approx.		kg/km	989	1101	1228	1344	1542	1699	1929	2160	2591	2988	3538
Standard Length per Reel		m	1000	1000	1000	1000	1000	1000	500	500	500	300	300
Minimum Bending Radius		mm	563	592	623	648	671	702	743	781	855	911	981
Capacitance at 50 Hz		µF/km	0.093	0.103	0.114	0.122	0.130	0.141	0.154	0.166	0.174	0.190	0.207
Inductance at 50 Hz		mH/km	0.424	0.397	0.375	0.358	0.345	0.331	0.315	0.303	0.296	0.283	0.273
Max. Current Carrying Capacity		In Air at 30°C	A	184	229	278	320	363	415	493	563	652	746
		In Ground at 30°C	A	166	203	242	276	307	348	404	455	517	576
		In Air at 30°C	A	217	240	328	378	425	485	513	652	740	838
		In Ground at 30°C	A	187	228	271	307	339	380	439	491	543	617
Short Circuit Current at 1 sec		kA	4.29	6.20	8.59	10.86	13.34	16.76	21.99	27.49	35.33	45.43	58.61
AC Voltage Test		kV/5 min	42	42	42	42	42	42	42	42	42	42	42

N2XSY (CU/XLPE/CWS or CTS/PVC)

NA2XSY (AL/XLPE/CWS or CTS/PVC)

SINGLE - CORE CABLE

COPPER OR ALUMINIUM CONDUCTOR, XLPE INSULATED
COPPER WIRE OR COPPER TAPE SCREENED AND PVC SHEATHED

Specification:

IEC 60502-2 & SNI IEC 60502-2

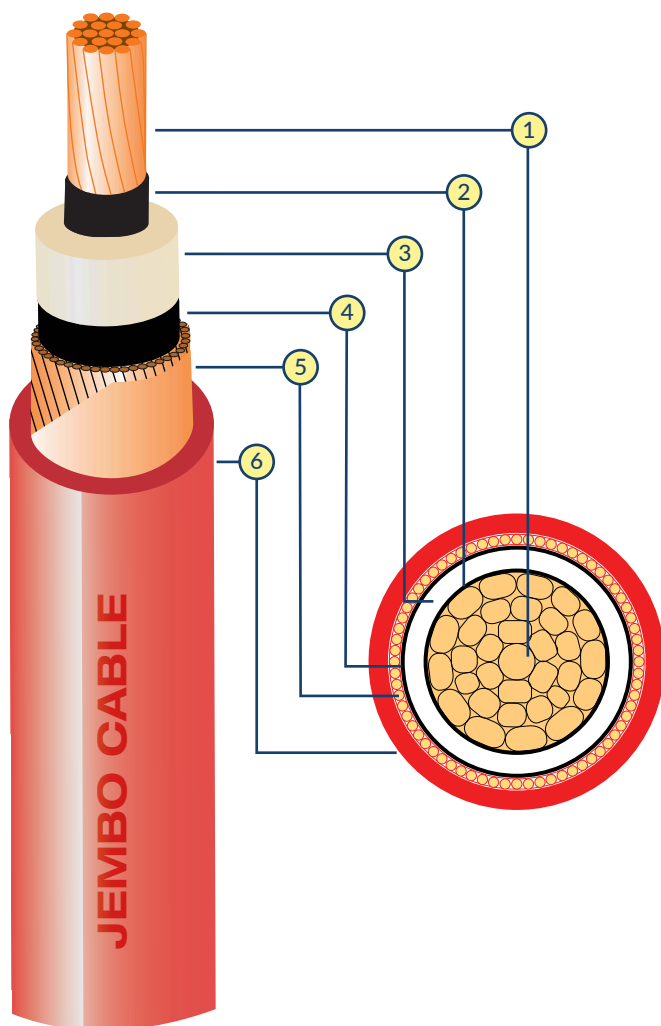
Application:

Suitable for Distribution Indoor and
Outdoor Installation, in conduit,
throughs or on Trays

Rated Voltage:

3.6/6 kV (7.2 kV)	12/20 kV (24 kV)
6/10 kV (12 kV)	18/30 kV (36 kV)
8.7/15 kV (17.5 kV)	

CONSTRUCTION



- | | |
|----------------------|---|
| 1. Conductor | : Copper or Aluminium (Compact Circular Stranded) |
| 2. Conductor Screen | : Extruded Semiconductive Compound |
| 3. Insulation | : Extruded Crosslinked Polyethylene (XLPE) |
| 4. Insulation Screen | : Extruded Strippable Semiconductive Compound |
| 5. Metallic Screen | : Copper Wire or Copper Tape |
| 6. Sheath | : Extruded PVC 90°C |

Special Features on Request:

- Oil Resistance
- Flame Retardant Category A,B,C
- Flame Retardant Non Category
- Nylon Coated
- Low Smoke Zero Halogen

N2XS_Y (CU/XLPE/CWS or CTS/PVC)

NA2XS_Y (AL/XLPE/CWS or CTS/PVC)

Nominal Voltage : 3.6/6 kV
 Maximum System Voltage : 7.2 kV
 Specification : IEC 60502-2 & SNI IEC 60502-2
 Other specifications are available on request

COPPER CONDUCTOR

Nominal Cross Sectional Area			mm ²	16	25	35	50	70	95	120	150	185	240	300	400	500	630
Conductor	Approx. Diameter		mm	4.6	5.8	6.9	8.0	9.6	11.3	12.7	14.1	15.8	18.1	20.3	22.9	26.0	29.6
	Max.DC Resistance at 20°C		Ohm/km	1.15	0.727	0.524	0.387	0.268	0.193	0.153	0.124	0.0991	0.0754	0.0601	0.0470	0.0366	0.0283
Insulation	Nominal Thickness		mm	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.6	2.8	3.0	3.2	3.2
	Min. Resistance at 20°C		MOhm.km	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
Sheath	Nominal Thickness		mm	1.5	1.5	1.6	1.6	1.7	1.7	1.8	1.8	1.9	1.9	2.0	2.2	2.3	2.4
Overall Diameter Approx.			mm	17.2	18.4	19.6	20.7	22.5	24.2	25.8	27.2	29.1	31.6	34.4	39.2	42.9	46.7
Cable Net. Weight Approx.			kg/km	504	607	720	849	1072	1335	1589	1940	2308	2866	3482	4435	5506	6880
Standard Length per Reel			m	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	500	500
Minimum Bending Radius			mm	310	331	353	373	405	436	464	490	524	569	619	706	772	841
Capacitance at 50 Hz			µF/km	0.098	0.111	0.122	0.134	0.150	0.168	0.180	0.195	0.209	0.229	0.242	0.238	0.255	0.279
Inductance at 50 Hz			mH/km	0.414	0.381	0.361	0.340	0.320	0.302	0.291	0.280	0.271	0.261	0.255	0.256	0.249	0.240
Max. Current Carrying Capacity		In Air at 30°C	A	125	163	198	238	296	361	417	473	543	641	735	845	955	1098
		In Ground at 20°C	A	109	140	166	196	239	285	323	361	406	469	526	590	654	737
		In Air at 30°C	A	150	196	238	286	356	434	500	559	637	745	846	938	1030	1150
		In Ground at 20°C	A	113	144	172	203	246	293	332	366	410	470	524	572	620	682
Short Circuit Current at 1 sec			kA	2.16	3.41	4.73	6.41	9.25	12.85	16.21	20.00	25.03	32.89	41.27	52.77	67.76	87.64
AC Voltage Test			kV/5 min	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5

ALUMINIUM CONDUCTOR

Nominal Cross Sectional Area			mm ²	16	25	35	50	70	95	120	150	185	240	300	400	500	630
Conductor	Approx. Diameter		mm	4.6	5.8	6.8	7.9	9.6	11.2	12.7	14.0	15.7	18.0	20.1	22.8	25.9	29.4
	Max.DC Resistance at 20°C		Ohm/km	1.91	1.21	0.868	0.641	0.443	0.32	0.253	0.206	0.164	0.125	0.1	0.0778	0.0605	0.0469
Insulation	Nominal Thickness		mm	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.6	2.8	3.0	3.2	3.2
	Min. Resistance at 20°C		M.Ohm.km	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
Sheath	Nominal Thickness		mm	1.5	1.5	1.6	1.6	1.7	1.7	1.8	1.8	1.9	1.9	2.0	2.2	2.3	2.4
Overall Diameter Approx.			mm	17.1	18.3	19.6	20.7	22.5	24.2	25.8	27.1	29.0	31.5	34.2	39.1	42.8	46.5
Cable Net. Weight Approx.			kg/km	407	454	510	564	662	764	870	1050	1197	1405	1644	2093	2502	2989
Standard Length per Reel			m	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Minimum Bending Radius			mm	308	329	353	373	405	436	464	488	522	567	616	704	770	837
Capacitance at 50 Hz			µF/km	0.097	0.111	0.121	0.133	0.149	0.167	0.179	0.194	0.208	0.228	0.241	0.237	0.254	0.278
Inductance at 50 Hz			mH/km	0.414	0.382	0.362	0.341	0.321	0.303	0.292	0.281	0.272	0.261	0.255	0.257	0.250	0.241
Max. Current Carrying Capacity		In Air at 30°C	A	97	127	154	184	230	280	324	368	424	502	577	673	769	894
		In Ground at 20°C	A	84	108	129	152	186	221	252	281	317	367	414	470	526	599
		In Air at 30°C	A	116	153	185	222	278	338	391	440	504	593	677	769	861	981
		In Ground at 20°C	A	88	112	134	157	192	229	260	288	324	373	419	466	513	574
Short Circuit Current at 1 sec			kA	1.44	2.27	3.17	4.29	6.20	8.59	10.86	13.34	16.76	21.99	27.49	35.33	45.43	58.61
AC Voltage Test			kV/5 min	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5

N2XS_Y (CU/XLPE/CWS or CTS/PVC)

NA2XS_Y (AL/XLPE/CWS or CTS/PVC)

Nominal Voltage : 6/10 kV
 Maximum System Voltage : 12 kV
 Specification : IEC 60502-2 & SNI IEC 60502-2
 Other specifications are available on request

COPPER CONDUCTOR

Nominal Cross Sectional Area			mm ²	16	25	35	50	70	95	120	150	185	240	300	400	500	630
Conductor	Approx. Diameter		mm	4.6	5.8	6.9	8.0	9.6	11.3	12.7	14.1	15.8	18.1	20.3	22.9	26.0	29.6
	Max.DC Resistance at 20°C		Ohm/km	1.15	0.727	0.524	0.387	0.268	0.193	0.153	0.124	0.0991	0.0754	0.0601	0.0470	0.0366	0.0283
Insulation	Nominal Thickness		mm	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
	Min. Resistance at 20°C		M. Ohm.km	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	2000	2000
Sheath	Nominal Thickness		mm	1.5	1.6	1.6	1.7	1.7	1.8	1.8	1.9	1.9	2.0	2.1	2.2	2.3	2.4
Overall Diameter Approx.			mm	19	20.4	21.4	22.7	24.3	26.2	27.6	29.2	30.9	33.4	35.8	40.0	43.3	47.1
Cable Net. Weight Approx.			kg/km	554	670	777	919	1137	1417	1663	2031	2390	2961	3563	4482	5532	6908
Standard Length per Reel			m	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	500	500
Minimum Bending Radius			mm	342	367	385	409	437	472	497	526	556	601	644	720	772	848
Capacitance at 50 Hz			µF/km	0.091	0.102	0.112	0.122	0.138	0.152	0.165	0.176	0.190	0.209	0.225	0.230	0.250	0.274
Inductance at 50 Hz			mH/km	0.433	0.402	0.379	0.359	0.335	0.318	0.304	0.295	0.283	0.272	0.263	0.260	0.251	0.242
Max. Current Carrying Capacity		In Air at 30°C	A	125	163	198	238	296	361	417	473	543	641	735	845	955	1098
		In Ground at 20°C	A	109	140	166	196	239	285	323	361	406	469	526	590	654	737
		In Air at 30°C	A	150	196	238	286	356	434	500	559	637	745	846	938	1030	1150
		In Ground at 20°C	A	113	144	172	203	246	293	332	366	410	470	524	572	620	682
Short Circuit Current at 1 sec			kA	2.16	3.41	4.73	6.41	9.25	12.85	16.21	20.00	25.03	32.89	41.27	52.77	67.76	87.64
AC Voltage Test			kV/5 min	21	21	21	21	21	21	21	21	21	21	21	21	21	21

ALUMINIUM CONDUCTOR

Nominal Cross Sectional Area			mm ²	16	25	35	50	70	95	120	150	185	240	300	400	500	630
Conductor	Approx. Diameter		mm	4.6	5.8	6.8	7.9	9.6	11.2	12.7	14.0	15.7	18.0	20.1	22.8	25.9	29.4
	Max.DC Resistance at 20°C		Ohm/km	1.91	1.21	0.868	0.641	0.443	0.32	0.253	0.206	0.164	0.125	0.10	0.0778	0.0605	0.0469
Insulation	Nominal Thickness		mm	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
	Min. Resistance at 20°C		M. Ohm.km	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	2000	2000
Sheath	Nominal Thickness		mm	1.5	1.6	1.6	1.7	1.7	1.8	1.8	1.9	1.9	2.0	2.1	2.2	2.3	2.4
Overall Diameter Approx.			mm	18.9	20.3	21.4	22.7	24.3	26.2	27.6	29.1	30.8	33.3	35.6	39.9	43.2	46.9
Cable Net. Weight Approx.			kg/km	457	517	566	634	726	846	944	1141	1279	1499	1725	2140	2527	3016
Standard Length per Reel			m	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Minimum Bending Radius			mm	340	365	385	409	437	472	497	524	554	599	641	718	778	844
Capacitance at 50 Hz			µF/km	0.090	0.102	0.112	0.122	0.137	0.151	0.164	0.175	0.190	0.208	0.224	0.228	0.249	0.273
Inductance at 50 Hz			mH/km	0.434	0.403	0.380	0.360	0.336	0.319	0.305	0.295	0.284	0.272	0.263	0.261	0.252	0.243
Max. Current Carrying Capacity		In Air at 30°C	A	97	127	154	184	230	280	324	368	424	502	577	673	769	894
		In Ground at 20°C	A	84	108	129	152	186	221	252	281	317	367	414	470	526	599
		In Air at 30°C	A	116	153	185	222	278	338	391	440	504	593	677	769	861	981
		In Ground at 20°C	A	88	112	134	157	192	229	260	288	324	373	419	466	513	574
Short Circuit Current at 1 sec			kA	1.44	2.27	3.17	4.29	6.20	8.59	10.86	13.34	16.76	21.99	27.49	35.33	45.43	58.61
AC Voltage Test			kV/5 min	21	21	21	21	21	21	21	21	21	21	21	21	21	21

N2XSY (CU/XLPE/CWS or CTS/PVC)

NA2XSY (AL/XLPE/CWS or CTS/PVC)

Nominal Voltage : 8.7/15 kV
Maximum System Voltage : 17.5 kV
Specification : IEC 60502-2 & SNI IEC 60502-2
Other specifications are available on request

COPPER CONDUCTOR

Nominal Cross Sectional Area			mm ²	25	35	50	70	95	120	150	185	240	300	400	500	630
Conductor	Approx. Diameter		mm	5.8	6.9	8.0	9.6	11.3	12.7	14.1	15.8	18.1	20.3	22.9	26.0	29.6
	Max.DC Resistance at 20°C		Ohm/km	0.727	0.524	0.387	0.268	0.193	0.153	0.124	0.0991	0.0754	0.0601	0.047	0.0366	0.0283
Insulation	Nominal Thickness		mm	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
	Min. Resistance at 20°C		M. Ohm.km	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000
Sheath	Nominal Thickness		mm	1.7	1.7	1.7	1.8	1.9	1.9	2.0	2.0	2.1	2.2	2.3	2.4	2.5
Overall Diameter Approx.			mm	22.8	23.8	24.9	26.7	28.6	30.0	31.6	33.3	35.8	38.2	42.4	45.7	49.5
Cable Net. Weight Approx.			kg/km	753	864	999	1235	1522	1774	2148	2514	3094	3705	4636	5698	7088
Standard Length per Reel			m	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	500	500
Minimum Bending Radius			mm	410	428	448	481	515	540	569	599	644	688	763	823	891
Capacitance at 50 Hz			μF/km	0.094	0.103	0.112	0.125	0.138	0.149	0.159	0.171	0.187	0.202	0.208	0.226	0.248
Inductance at 50 Hz			mH/km	0.424	0.400	0.377	0.354	0.335	0.321	0.310	0.298	0.286	0.276	0.272	0.262	0.252
Max. Current Carying Capacity		In Air at 30°C	A	163	198	238	296	361	417	473	543	641	735	845	955	1098
		In Ground at 20°C	A	140	166	196	239	285	323	361	406	469	526	590	654	737
		In Air at 30°C	A	196	238	286	356	434	500	559	637	745	846	938	1030	1150
		In Ground at 20°C	A	144	172	203	246	293	332	366	410	470	524	572	620	682
Short Circuit Current at 1 sec			kA	3.41	4.73	6.41	9.25	12.85	16.21	20.00	25.03	32.89	41.27	52.77	67.76	87.64
AC Voltage Test			kV/5 min	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5

ALUMINIUM CONDUCTOR

Nominal Cross Sectional Area			mm ²	25	35	50	70	95	120	150	185	240	300	400	500	630
Conductor	Approx. Diameter		mm	5.8	6.8	7.9	9.6	11.2	12.7	14.0	15.7	18.0	20.1	22.8	25.9	29.4
	Max.DC Resistance at 20°C		Ohm/km	1.21	0.868	0.641	0.443	0.32	0.253	0.206	0.164	0.125	0.1	0.0778	0.0605	0.0469
Insulation	Nominal Thickness		mm	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
	Min. Resistance at 20°C		M.Ohm.km	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000
Sheath	Nominal Thickness		mm	1.7	1.7	1.7	1.8	1.9	1.9	2.0	2.0	2.1	2.2	2.3	2.4	2.5
Overall Diameter Approx.			mm	22.7	23.8	24.9	26.7	28.6	30.0	31.5	33.2	35.7	38.0	42.3	45.6	49.3
Cable Net. Weight Approx.			kg/km	599	653	714	824	951	1054	1257	1402	1632	1866	2293	2693	3196
Standard Length per Reel			m	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Minimum Bending Radius			mm	409	428	448	481	515	540	567	598	643	684	761	821	887
Capacitance at 50 Hz			μF/km	0.093	0.102	0.112	0.124	0.137	0.148	0.158	0.171	0.186	0.201	0.207	0.225	0.247
Inductance at 50 Hz			mH/km	0.425	0.401	0.378	0.355	0.336	0.322	0.311	0.299	0.286	0.276	0.273	0.262	0.252
Max. Current Carying Capacity		In Air at 30°C	A	127	154	184	230	280	324	368	424	502	577	673	769	894
		In Ground at 20°C	A	108	129	152	186	221	252	281	317	367	414	470	526	599
		In Air at 30°C	A	153	185	222	278	338	391	440	504	593	677	769	861	981
		In Ground at 20°C	A	112	134	157	192	229	260	288	324	373	419	466	513	574
Short Circuit Current at 1 sec			kA	2.27	3.17	4.29	6.20	8.59	10.86	13.34	16.76	21.99	27.49	35.33	45.43	58.61
AC Voltage Test			kV/5 min	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5

N2XSY (CU/XLPE/CWS or CTS/PVC)

NA2XSY (AL/XLPE/CWS or CTS/PVC)

Nominal Voltage : 12/20 kV
 Maximum System Voltage : 24 kV
 Specification : IEC 60502-2 & SNI IEC 60502-2
 Other specifications are available on request

COPPER CONDUCTOR

Nominal Cross Sectional Area		mm ²	25	35	50	70	95	120	150	185	240	300	400	500	630	
Conductor	Approx. Diameter	mm	5.8	6.9	8.0	9.6	11.3	12.7	14.1	15.8	18.1	20.3	22.9	26.0	29.6	
	Max.DC Resistance at 20°C	Ohm/km	0.727	0.524	0.387	0.268	0.193	0.153	0.124	0.0991	0.0754	0.0601	0.047	0.0366	0.0283	
Insulation	Nominal Thickness	mm	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	
	Min. Resistance at 20°C	M. Ohm.km	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	
Sheath	Nominal Thickness	mm	1.7	1.8	1.8	1.9	1.9	2.0	2.0	2.1	2.2	2.2	2.3	2.4	2.5	
Overall Diameter Approx.		mm	24.8	26	27.1	28.9	30.6	32.2	33.6	35.5	38	40.2	44.4	47.7	51.5	
Cable Net. Weight Approx.		kg/km	825	952	1091	1333	1613	1884	2248	2635	3224	3825	4764	5836	7238	
Standard Length per Reel		m	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	500	500	
Minimum Bending Radius		mm	446	468	488	520	551	580	605	639	684	724	799	859	927	
Capacitance at 50 Hz		µF/km	0.088	0.096	0.105	0.116	0.128	0.137	0.147	0.158	0.172	0.187	0.193	0.210	0.230	
Inductance at 50 Hz		mH/km	0.441	0.418	0.394	0.370	0.349	0.335	0.323	0.311	0.298	0.286	0.281	0.270	0.260	
Max. Current Carying Capacity		In Air at 30°C	A	163	198	238	296	361	417	473	543	641	735	845	955	1098
		In Ground at 20°C	A	140	166	196	239	285	323	361	406	469	526	590	654	737
		In Air at 30°C	A	196	238	286	356	434	500	559	637	745	846	938	1030	1150
		In Ground at 20°C	A	144	172	203	246	293	332	366	410	470	524	572	620	682
Short Circuit Current at 1 sec		kA	3.41	4.73	6.41	9.25	12.85	16.21	20.00	25.03	32.89	41.27	52.77	67.76	87.64	
AC Voltage Test		kV/5 min	42	42	42	42	42	42	42	42	42	42	42	42	42	

ALUMINIUM CONDUCTOR

Nominal Cross Sectional Area			mm ²	25	35	50	70	95	120	150	185	240	300	400	500	630
Conductor	Approx. Diameter		mm	5.8	6.8	7.9	9.6	11.2	12.7	14.0	15.7	18.0	20.1	22.8	25.9	29.4
	Max.DC Resistance at 20°C		Ohm/km	1.21	0.868	0.641	0.443	0.32	0.253	0.206	0.164	0.125	0.1	0.0778	0.0605	0.0469
Insulation	Nominal Thickness		mm	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	Min. Resistance at 20°C		M. Ohm.km	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000
Sheath	Nominal Thickness		mm	1.7	1.8	1.8	1.9	1.9	2.0	2.0	2.1	2.2	2.2	2.3	2.4	2.5
Overall Diameter Approx.			mm	24.7	26	27.1	28.9	30.6	32.2	33.5	35.4	37.9	40	44.3	47.6	51.3
Cable Net. Weight Approx.			kg/km	672	741	806	922	1042	1164	1357	1523	1762	1986	2421	2831	3345
Standard Length per Reel			m	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Minimum Bending Radius			mm	445	468	488	520	551	580	603	637	682	720	797	857	923
Capacitance at 50 Hz			µF/km	0.088	0.096	0.104	0.116	0.128	0.137	0.147	0.157	0.171	0.186	0.192	0.209	0.229
Inductance at 50 Hz			mH/km	0.442	0.419	0.395	0.371	0.350	0.336	0.324	0.312	0.298	0.287	0.282	0.271	0.260
Max. Current Carying Capacity		In Air at 30°C	A	127	154	184	230	280	324	368	424	502	577	673	769	894
		In Ground at 20°C	A	108	129	152	186	221	252	281	317	367	414	470	526	599
		In Air at 30°C	A	153	185	222	278	338	391	440	504	593	677	769	861	981
		In Ground at 20°C	A	112	134	157	192	229	260	288	324	373	419	466	513	574
Short Circuit Current at 1 sec			kA	2.27	3.17	4.29	6.20	8.59	10.86	13.34	16.76	21.99	27.49	35.33	45.43	58.61
AC Voltage Test			kV/5 min	42	42	42	42	42	42	42	42	42	42	42	42	42

N2XS_Y (CU/XLPE/CWS or CTS/PVC)

NA2XS_Y (AL/XLPE/CWS or CTS/PVC)

Nominal Voltage : 18/30 kV
 Maximum System Voltage : 36 kV
 Specification : IEC 60502-2 & SNI IEC 60502-2
 Other specifications are available on request

COPPER CONDUCTOR

Nominal Cross Sectional Area			mm ²	50	70	95	120	150	185	240	300	400	500	630
Conductor	Approx. Diameter		mm	8.0	9.6	11.3	12.7	14.1	15.8	18.1	20.3	22.9	26.0	29.6
	Max.DC Resistance at 20°C		Ohm/km	0.387	0.268	0.193	0.153	0.124	0.0991	0.0754	0.0601	0.0470	0.0366	0.0283
Insulation	Nominal Thickness		mm	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
	Min. Resistance at 20°C		M. Ohm.km	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000
Sheath	Nominal Thickness		mm	2.0	2.0	2.1	2.1	2.2	2.2	2.3	2.4	2.5	2.6	2.7
Overall Diameter Approx.			mm	33.3	34.9	36.8	38.2	39.8	41.5	44	46.4	50.6	53.9	57.7
Cable Net. Weight Approx.			kg/km	1395	1640	1953	2222	2619	3006	3619	4262	5232	6337	7777
Standard Length per Reel			m	1000	1000	1000	1000	1000	1000	1000	1000	500	500	500
Minimum Bending Radius			mm	599	628	662	688	716	747	792	835	911	970	1039
Capacitance at 50 Hz			µF/km	0.090	0.099	0.108	0.116	0.123	0.132	0.144	0.154	0.161	0.175	0.191
Inductance at 50 Hz			mH/km	0.435	0.408	0.386	0.369	0.356	0.342	0.327	0.315	0.307	0.295	0.283
Max. Current Carying Capacity		In Air at 30°C	A	238	296	361	417	473	543	641	735	845	955	1098
		In Ground at 20°C	A	196	239	285	323	361	406	469	526	590	654	737
		In Air at 30°C	A	286	356	434	500	559	637	745	846	938	1030	1150
		In Ground at 20°C	A	203	246	293	332	366	410	470	524	572	620	682
Short Circuit Current at 1 sec			kA	6.41	9.25	12.85	16.21	20.00	25.03	32.89	41.27	52.77	67.76	87.64
AC Voltage Test			kV/5 min	63	63	63	63	63	63	63	63	63	63	63

ALUMINIUM CONDUCTOR

Nominal Cross Sectional Area			mm ²	50	70	95	120	150	185	240	300	400	500	630
Conductor	Approx. Diameter		mm	7.9	9.6	11.2	12.7	14.0	15.7	18.0	20.1	22.8	25.9	29.4
	Max.DC Resistance at 20°C		Ohm/km	0.641	0.443	0.32	0.253	0.206	0.164	0.125	0.10	0.0778	0.0605	0.0469
Insulation	Nominal Thickness		mm	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
	Min. Resistance at 20°C		M. Ohm.km	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000
Sheath	Nominal Thickness		mm	2.0	2.0	2.1	2.1	2.2	2.2	2.3	2.4	2.5	2.6	2.7
Overall Diameter Approx.			mm	33.3	34.9	36.8	38.2	39.7	41.4	43.9	46.2	50.5	53.8	57.5
Cable Net. Weight Approx.			kg/km	1110	1229	1381	1502	1726	1893	2156	2421	2888	3331	3883
Standard Length per Reel			m	1000	1000	1000	1000	1000	1000	1000	1000	1000	500	500
Minimum Bending Radius			mm	599	628	662	688	715	745	790	832	909	968	1035
Capacitance at 50 Hz			µF/km	0.089	0.099	0.108	0.116	0.123	0.132	0.143	0.154	0.161	0.174	0.190
Inductance at 50 Hz			mH/km	0.436	0.409	0.387	0.370	0.358	0.343	0.328	0.316	0.308	0.295	0.283
Max. Current Carrying Capacity		In Air at 30°C	A	184	230	280	324	368	424	502	577	673	769	894
		In Ground at 20°C	A	152	186	221	252	281	317	367	414	470	526	599
		In Air at 30°C	A	222	278	338	391	440	504	593	677	769	861	981
		In Ground at 20°C	A	157	192	229	260	288	324	373	419	466	513	574
Short Circuit Current at 1 sec			kA	4.29	6.20	8.59	10.86	13.34	16.76	21.99	27.49	35.33	45.43	58.61
AC Voltage Test			kV/5 min	63	63	63	63	63	63	63	63	63	63	63

N2XSEY (CU/XLPE/CTS/PVC) NA2XSEY (AL/XLPE/CTS/PVC)

THREE - CORES CABLES

COPPER OR ALUMINIUM CONDUCTOR, XLPE INSULATED
COPPER TAPE SCREENED AND PVC SHEATHED

Specification:

IEC 60502-2 & SNI IEC 60502-2

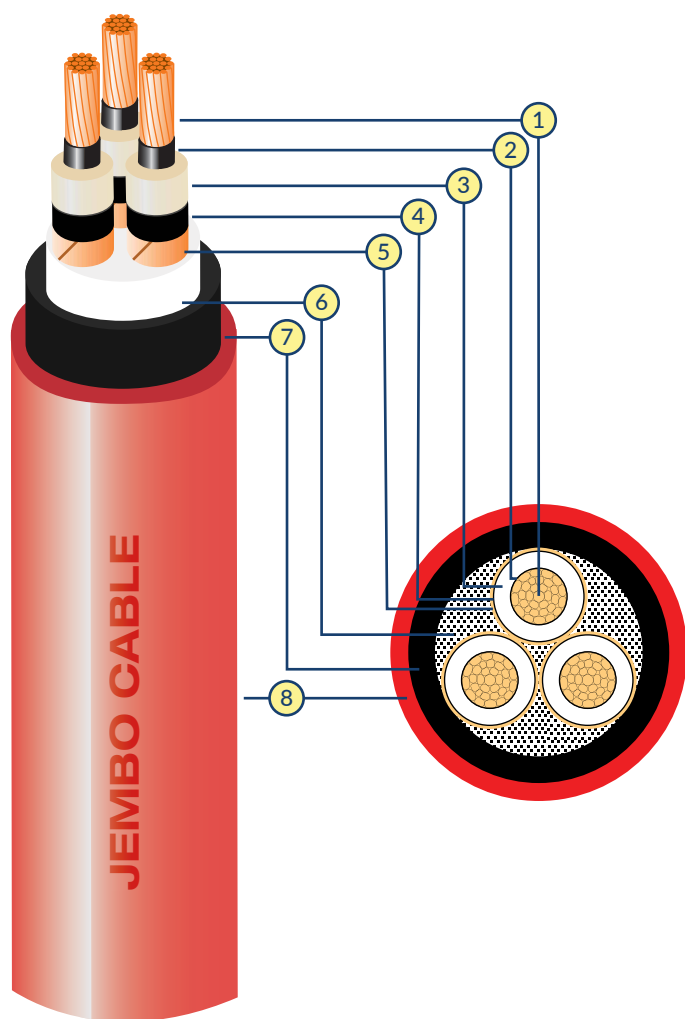
Application:

Suitable for Distribution Indoor and
Outdoor Installation, in conduit,
throughs or on Trays

Rated Voltage:

3.6/6 kV (7.2 kV)	12/20 kV (24 kV)
6/10 kV (12 kV)	18/30 kV (36 kV)
8.7/15 kV (17.5 kV)	

CONSTRUCTION



- | | |
|----------------------|---|
| 1. Conductor | : Copper or Aluminium (Compact Circular Stranded) |
| 2. Conductor Screen | : Extruded Semiconductive Compound |
| 3. Insulation | : Extruded Crosslinked Polyethylene (XLPE) |
| 4. Insulation Screen | : Extruded Strippable Semiconductive Compound |
| 5. Metallic Screen | : Helically Overlapped Copper Tape |
| 6. Filler | : Non Hygroscopic Material |
| 7. Inner Sheath | : Extruded PVC 90°C |
| 8. Outer Sheath | : Extruded PVC 90°C |

Identification of core by binder tape:
Brown, Black, Grey or by request

Special Features on Request:

- Oil Resistance
- Flame Retardant Category A,B,C
- Flame Retardant Non Category
- Nylon Coated
- Low Smoke Zero Halogen

N2XSEY (CU/XLPE/CTS/PVC)

NA2XSEY (AL/XLPE/CTS/PVC)

Nominal Voltage : 3.6/6 kV
Maximum System Voltage : 7.2 kV
Specification : IEC 60502-2 & SNI IEC 60502-2
Other specifications are available on request

COPPER CONDUCTOR

Nominal Cross Sectional Area		mm ²	16	25	35	50	70	95	120	150	185	240	300	400
Conductor	Approx. Diameter	mm	4.6	5.8	6.9	8.0	9.6	11.3	12.7	14.1	15.8	18.1	20.3	22.9
	Max.DC Resistance at 20°C	Ohm/km	1.15	0.727	0.524	0.387	0.268	0.193	0.153	0.124	0.0991	0.0754	0.0601	0.0470
Insulation	Nominal Thickness	mm	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.6	2.8	3.0
	Min. Resistance at 20°C	MOhm/km	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
Sheath	Nominal Thickness	mm	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.8	2.9	3.1	3.3	3.5
Overall Diameter Approx.		mm	34.5	37.3	39.7	42.6	46.4	50.3	53.7	57.2	61.2	67.2	73.4	80.8
Cable Net. Weight Approx.		kg/km	1459	1837	2213	2696	3457	4364	5220	6174	7403	9347	11451	14298
Standard Length per Reel		m	1000	1000	1000	1000	1000	1000	500	500	500	500	300	300
Minimum Bending Radius		mm	621	671	715	767	835	905	967	1030	1102	1210	1321	1454
Capacitance at 50 Hz		µF/km	0.133	0.155	0.173	0.193	0.221	0.251	0.276	0.300	0.329	0.360	0.380	0.405
Inductance at 50 Hz		mH/km	0.344	0.317	0.299	0.282	0.265	0.251	0.242	0.234	0.227	0.220	0.216	0.212
Max. Current Carrying Capacity	In Air at 30°C	A	109	142	170	204	253	304	351	398	455	531	606	696
	In Ground at 20°C	A	101	129	153	181	221	262	298	334	377	434	489	553
Short Circuit Current at 1 sec		kA	2.16	3.41	4.73	6.41	9.25	12.85	16.21	20.00	25.03	32.89	41.27	52.77
AC Voltage Test		kV/5 min	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5

ALUMINIUM CONDUCTOR

Nominal Cross Sectional Area		mm ²	16	25	35	50	70	95	120	150	185	240	300	400
Conductor	Approx. Diameter	mm	4.6	5.8	6.8	7.9	9.6	11.2	12.7	14.0	15.7	18.0	20.1	22.8
	Max.DC Resistance at 20°C	Ohm/km	1.91	1.21	0.868	0.641	0.443	0.32	0.253	0.206	0.164	0.125	0.100	0.0778
Insulation	Nominal Thickness	mm	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.6	2.8	3.0
	Min. Resistance at 20°C	MOhm/km	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
Sheath	Nominal Thickness	mm	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.8	2.9	3.1	3.3	3.5
Overall Diameter Approx.		mm	34.4	37.2	39.6	42.4	46.3	50.2	53.6	57.0	61.0	67.0	73.0	80.5
Cable Net. Weight Approx.		kg/km	1167	1377	1579	1833	2221	2649	3060	3499	4063	4958	5923	7258
Standard Length per Reel		m	1000	1000	1000	1000	1000	1000	500	500	500	500	500	300
Minimum Bending Radius		mm	619	670	713	763	833	904	965	1026	1098	1206	1314	1449
Capacitance at 50 Hz		µF/km	0.132	0.154	0.172	0.192	0.221	0.250	0.274	0.298	0.327	0.359	0.378	0.403
Inductance at 50 Hz		mH/km	0.345	0.318	0.300	0.283	0.266	0.252	0.242	0.235	0.227	0.220	0.217	0.212
Max. Current Carrying Capacity	In Air at 30°C	A	84	110	132	158	196	236	273	309	355	415	475	552
	In Ground at 20°C	A	78	100	119	140	171	203	232	260	294	340	384	438
Short Circuit Current at 1 sec		kA	1.44	2.27	3.17	4.29	6.20	8.59	10.86	13.34	16.76	21.99	27.49	35.33
AC Voltage Test		kV/5 min	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5

N2XSEY (CU/XLPE/CTS/PVC)

NA2XSEY (AL/XLPE/CTS/PVC)

Nominal Voltage : 6/10 kV
 Maximum System Voltage : 12 kV
 Specification : IEC 60502-2 & SNI IEC 60502-2
 Other specifications are available on request

COPPER CONDUCTOR

Nominal Cross Sectional Area		mm ²	16	25	35	50	70	95	120	150	185	240	300	400
Conductor	Approx. Diameter	mm	4.6	5.8	6.9	8.0	9.6	11.3	12.7	14.1	15.8	18.1	20.3	22.9
	Max.DC Resistance at 20°C	Ohm/km	1.15	0.727	0.524	0.387	0.268	0.193	0.153	0.124	0.0991	0.0754	0.0601	0.0470
Insulation	Nominal Thickness	mm	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
	Min. Resistance at 20°C	M. Ohm.km	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000
Sheath	Nominal Thickness	mm	2.2	2.3	2.3	2.4	2.6	2.7	2.8	2.9	3.0	3.2	3.3	3.6
Overall Diameter Approx.		mm	38.8	41.8	44.0	46.8	50.7	54.8	58.2	61.5	65.5	71.1	76.2	82.7
Cable Net. Weight Approx.		kg/km	1723	2138	2510	3007	3798	4755	5635	6584	7839	9778	11779	14545
Standard Length per Reel		m	1000	1000	1000	1000	1000	500	500	500	500	500	300	300
Minimum Bending Radius		mm	698	752	792	842	913	986	1048	1107	1179	1280	1372	1489
Capacitance at 50 Hz		µF/km	0.116	0.134	0.149	0.166	0.189	0.213	0.233	0.253	0.276	0.308	0.339	0.375
Inductance at 50 Hz		mH/km	0.371	0.342	0.323	0.304	0.285	0.270	0.259	0.250	0.242	0.232	0.225	0.217
Max. Current Carrying Capacity	In Air at 30°C	A	109	142	170	204	253	304	351	398	455	531	606	696
	In Ground at 20°C	A	101	129	153	181	221	262	298	334	377	434	489	553
Short Circuit Current at 1 sec		kA	2.16	3.41	4.73	6.41	9.25	12.85	16.21	20.00	25.03	32.89	41.27	52.77
AC Voltage Test		kV/5 min	21	21	21	21	21	21	21	21	21	21	21	21

ALUMINIUM CONDUCTOR

Nominal Cross Sectional Area		mm ²	16	25	35	50	70	95	120	150	185	240	300	400
Conductor	Approx. Diameter	mm	4.6	5.8	6.8	7.9	9.6	11.2	12.7	14.0	15.7	18.0	20.1	22.8
	Max.DC Resistance at 20°C	Ohm/km	1.91	1.21	0.868	0.641	0.443	0.32	0.253	0.206	0.164	0.125	0.100	0.0778
Insulation	Nominal Thickness	mm	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
	Min. Resistance at 20°C	M. Ohm.km	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000
Sheath	Nominal Thickness	mm	2.2	2.3	2.3	2.4	2.6	2.7	2.8	2.9	3.0	3.2	3.3	3.6
Overall Diameter Approx.		mm	38.7	41.7	43.9	46.7	50.6	54.7	58.1	61.2	65.3	70.8	75.8	82.4
Cable Net. Weight Approx.		kg/km	1430	1678	1875	2148	2562	3039	3474	3900	4498	5379	6249	7505
Standard Length per Reel		m	1000	1000	1000	1000	1000	500	500	500	500	500	500	300
Minimum Bending Radius		mm	697	751	790	841	911	985	1046	1102	1175	1274	1364	1483
Capacitance at 50 Hz		µF/km	0.116	0.133	0.149	0.165	0.188	0.212	0.232	0.251	0.275	0.307	0.336	0.374
Inductance at 50 Hz		mH/km	0.373	0.343	0.323	0.305	0.286	0.270	0.259	0.251	0.242	0.233	0.225	0.217
Max. Current Carrying Capacity	In Air at 30°C	A	84	110	132	158	196	236	273	309	355	415	475	552
	In Ground at 20°C	A	78	100	119	140	171	203	232	260	294	340	384	438
Short Circuit Current at 1 sec		kA	1.44	2.27	3.17	4.29	6.20	8.59	10.86	13.34	16.76	21.99	27.49	35.33
AC Voltage Test		kV/5 min	21	21	21	21	21	21	21	21	21	21	21	21

N2XSEY (CU/XLPE/CTS/PVC)

NA2XSEY (AL/XLPE/CTS/PVC)

Nominal Voltage : 8.7/15 kV
 Maximum System Voltage : 17.5 kV
 Specification : IEC 60502-2 & SNI IEC 60502-2
 Other specifications are available on request

COPPER CONDUCTOR

Nominal Cross Sectional Area			mm ²	25	35	50	70	95	120	150	185	240	300	400
Conductor	Approx. Diameter	mm		5.8	6.9	8.0	9.6	11.3	12.7	14.1	15.8	18.1	20.3	22.9
	Max.DC Resistance at 20°C	Ohm/km		0.727	0.524	0.387	0.268	0.193	0.153	0.124	0.0991	0.0754	0.0601	0.047
Insulation	Nominal Thickness	mm		4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
	Min. Resistance at 20°C	M.Ohm.km		4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000
Sheath	Nominal Thickness	mm		2.4	2.5	2.6	2.7	2.9	3.0	3.1	3.2	3.4	3.5	3.8
Overall Diameter Approx.			mm	46.9	49.4	52.2	55.9	60.2	63.6	66.8	70.8	76.4	81.5	88.1
Cable Net. Weight Approx.			kg/km	2509	2926	3446	4242	5259	6167	7135	8422	10406	12447	15278
Standard Length per Reel			m	1000	1000	1000	500	500	500	500	500	300	300	300
Minimum Bending Radius			mm	844	889	940	1006	1084	1145	1202	1274	1375	1467	1586
Capacitance at 50 Hz			µF/km	0.117	0.130	0.143	0.162	0.182	0.198	0.214	0.234	0.260	0.284	0.314
Inductance at 50 Hz			mH/km	0.369	0.348	0.328	0.307	0.290	0.278	0.268	0.259	0.248	0.239	0.230
Max. Current Carrying Capacity	In Air at 30°C	A		142	170	204	253	304	351	398	455	531	606	696
	In Ground at 20°C	A		129	153	181	221	262	298	334	377	434	489	553
Short Circuit Current at 1 sec			kA	3.41	4.73	6.41	9.25	12.85	16.21	20.00	25.03	32.89	41.27	52.77
AC Voltage Test			kV/5 min	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5

ALUMINIUM CONDUCTOR

Nominal Cross Sectional Area			mm ²	25	35	50	70	95	120	150	185	240	300	400
Conductor	Approx. Diameter	mm		5.8	6.8	7.9	9.6	11.2	12.7	14.0	15.7	18.0	20.1	22.8
	Max.DC Resistance at 20°C	Ohm/km		1.21	0.868	0.641	0.443	0.32	0.253	0.206	0.164	0.125	0.100	0.0778
Insulation	Nominal Thickness	mm		4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
	Min. Resistance at 20°C	M.Ohm.km		4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000
Sheath	Nominal Thickness	mm		2.4	2.5	2.6	2.7	2.9	3.0	3.1	3.2	3.4	3.5	3.8
Overall Diameter Approx.			mm	46.8	49.3	52.1	55.8	60	63.5	66.6	70.7	76.2	81.2	87.8
Cable Net. Weight Approx.			kg/km	2048	2290	2587	3006	3535	4006	4457	5088	6014	6925	8236
Standard Length per Reel			m	1000	1000	1000	500	500	500	500	500	500	300	300
Minimum Bending Radius			mm	842	887	938	1004	1080	1143	1199	1273	1372	1462	1580
Capacitance at 50 Hz			µF/km	0.117	0.129	0.143	0.162	0.181	0.198	0.213	0.233	0.259	0.283	0.313
Inductance at 50 Hz			mH/km	0.370	0.349	0.329	0.308	0.291	0.279	0.269	0.259	0.248	0.240	0.231
Max. Current Carrying Capacity	In Air at 30°C	A		110	132	158	196	236	273	309	355	415	475	552
	In Ground at 20°C	A		100	119	140	171	203	232	260	294	340	384	438
Short Circuit Current at 1 sec			kA	2.27	3.17	4.29	6.20	8.59	10.86	13.34	16.76	21.99	27.49	35.33
AC Voltage Test			kV/5 min	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5

N2XSEY (CU/XLPE/CTS/PVC)

NA2XSEY (AL/XLPE/CTS/PVC)

Nominal Voltage : 12/20 kV
Maximum System Voltage : 24 kV
Specification : IEC 60502-2 & SNI IEC 60502-2
Other specifications are available on request

COPPER CONDUCTOR

Nominal Cross Sectional Area		mm ²	35	50	70	95	120	150	185	240	300	400
Conductor	Approx. Diameter	mm	6.9	8.0	9.6	11.3	12.7	14.1	15.8	18.1	20.3	22.9
	Max.DC Resistance at 20°C	Ohm/km	0.524	0.387	0.268	0.193	0.153	0.124	0.0991	0.0754	0.0601	0.047
Insulation	Nominal Thickness	mm	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	Min. Resistance at 20°C	M. Ohm.km	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000
Sheath	Nominal Thickness	mm	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.5	3.7	3.9
Overall Diameter Approx.		mm	54.3	57.1	60.8	64.9	68.1	71.6	75.6	81.2	86.3	92.8
Cable Net. Weight Approx.		kg/km	3345	3886	4710	5729	6629	7660	8975	10999	13077	15944
Standard Length per Reel		m	500	500	500	500	500	500	500	300	300	300
Minimum Bending Radius		mm	977	1028	1094	1168	1226	1289	1361	1462	1553	1670
Capacitance at 50 Hz		µF/km	0.118	0.129	0.146	0.163	0.177	0.190	0.207	0.229	0.250	0.276
Inductance at 50 Hz		mH/km	0.369	0.348	0.325	0.307	0.294	0.283	0.273	0.261	0.251	0.241
Max. Current Carrying Capacity	In Air at 30°C	A	170	204	253	304	351	398	455	531	606	696
	In Ground at 20°C	A	153	181	221	262	298	334	377	434	489	553
Short Circuit Current at 1 sec		kA	4.73	6.41	9.25	12.85	16.21	20.00	25.03	32.89	41.27	52.77
AC Voltage Test		kV/5 min	42	42	42	42	42	42	42	42	42	42

ALUMINIUM CONDUCTOR

Nominal Cross Sectional Area		mm ²	35	50	70	95	120	150	185	240	300	400
Conductor	Approx. Diameter	mm	6.8	7.9	9.6	11.2	12.7	14.0	15.7	18.0	20.1	22.8
	Max.DC Resistance at 20°C	Ohm/km	0.868	0.641	0.443	0.32	0.253	0.206	0.164	0.125	0.100	0.0778
Insulation	Nominal Thickness	mm	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	Min. Resistance at 20°C	M. Ohm.km	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000
Sheath	Nominal Thickness	mm	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.5	3.7	3.9
Overall Diameter Approx.		mm	54.2	57	60.7	64.7	68	71.3	75.4	80.9	85.9	92.5
Cable Net. Weight Approx.		kg/km	2708	3027	3472	4004	4467	4972	5631	6596	7542	8899
Standard Length per Reel		m	500	500	500	500	500	500	500	300	300	300
Minimum Bending Radius		mm	976	1026	1093	1165	1224	1283	1357	1456	1546	1665
Capacitance at 50 Hz		µF/km	0.117	0.129	0.145	0.162	0.176	0.189	0.206	0.228	0.249	0.275
Inductance at 50 Hz		mH/km	0.370	0.348	0.326	0.307	0.294	0.284	0.273	0.261	0.252	0.242
Max. Current Carrying Capacity	In Air at 30°C	A	132	158	196	236	273	309	355	415	475	552
	In Ground at 20°C	A	119	140	171	203	232	260	294	340	384	438
Short Circuit Current at 1 sec		kA	3.17	4.29	6.20	8.59	10.86	13.34	16.76	21.99	27.49	35.33
AC Voltage Test		kV/5 min	42	42	42	42	42	42	42	42	42	42

N2XSEY (CU/XLPE/CTS/PVC)

NA2XSEY (AL/XLPE/CTS/PVC)

Nominal Voltage : 18/30 kV
 Maximum System Voltage : 36 kV
 Specification : IEC 60502-2 & SNI IEC 60502-2
 Other specifications are available on request

COPPER CONDUCTOR

Nominal Cross Sectional Area		mm ²	50	70	95	120	150	185	240	300	400
Conductor	Approx. Diameter	mm	8.0	9.6	11.3	12.7	14.1	15.8	18.1	20.3	22.9
	Max.DC Resistance at 20°C	Ohm/km	0.387	0.268	0.193	0.153	0.124	0.0991	0.0754	0.0601	0.0470
Insulation	Nominal Thickness	mm	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
	Min. Resistance at 20°C	MOhm.km	6000	6000	6000	6000	6000	6000	6000	6000	6000
Sheath	Nominal Thickness	mm	3.2	3.3	3.4	3.5	3.6	3.7	3.9	4.1	4.3
Overall Diameter Approx.		mm	70.8	74.5	78.6	82	85.3	89.3	94.9	100.2	106.5
Cable Net. Weight Approx.		kg/km	5309	6208	7314	8318	9384	10784	12926	15157	18116
Standard Length per Reel		m	500	500	500	300	300	300	300	300	300
Minimum Bending Radius		mm	1274	1341	1415	1476	1535	1607	1708	1804	1917
Capacitance at 50 Hz		µF/km	0.104	0.116	0.128	0.138	0.148	0.160	0.176	0.191	0.209
Inductance at 50 Hz		mH/km	0.395	0.370	0.349	0.334	0.322	0.309	0.294	0.283	0.271
Max. Current Carrying Capacity	In Air at 30°C	A	204	253	304	351	398	455	531	606	696
	In Ground at 20°C	A	181	221	262	298	334	377	434	489	553
Short Circuit Current at 1 sec		kA	6.41	9.25	12.85	16.21	20.00	25.03	32.89	41.27	52.77
AC Voltage Test		kV/5 min	63	63	63	63	63	63	63	63	63

ALUMINIUM CONDUCTOR

Nominal Cross Sectional Area		mm ²	50	70	95	120	150	185	240	300	400
Conductor	Approx. Diameter	mm	7.9	9.6	11.2	12.7	14.0	15.7	18.0	20.1	22.8
	Max.DC Resistance at 20°C	Ohm/km	0.641	0.443	0.32	0.253	0.206	0.164	0.125	0.100	0.0778
Insulation	Nominal Thickness	mm	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
	Min. Resistance at 20°C	MOhm.km	6000	6000	6000	6000	6000	6000	6000	6000	6000
Sheath	Nominal Thickness	mm	3.2	3.3	3.4	3.5	3.6	3.7	3.9	4.1	4.3
Overall Diameter Approx.		mm	70.7	74.4	78.5	81.9	85.0	89.1	94.6	99.8	106.2
Cable Net. Weight Approx.		kg/km	4448	4969	5594	6154	6691	7436	8518	9614	11065
Standard Length per Reel		m	500	500	500	300	300	300	300	300	300
Minimum Bending Radius		mm	1273	1339	1413	1474	1530	1604	1703	1796	1912
Capacitance at 50 Hz		µF/km	0.104	0.116	0.128	0.138	0.148	0.159	0.175	0.190	0.208
Inductance at 50 Hz		mH/km	0.396	0.371	0.350	0.334	0.322	0.309	0.295	0.284	0.272
Max. Current Carrying Capacity	In Air at 30°C	A	158	196	236	273	309	355	415	475	552
	In Ground at 20°C	A	140	171	203	232	260	294	340	384	438
Short Circuit Current at 1 sec		kA	4.29	6.20	8.59	10.86	13.34	16.76	21.99	27.49	35.33
AC Voltage Test		kV/5 min	63	63	63	63	63	63	63	63	63

N2XSR(AI)Y (CU/XLPE/CWS or CTS/AWA/PVC) NA2XSR(AI)Y (AL/XLPE/CWS or CTS/AWA/PVC)

SINGLE - CORE CABLE

COPPER OR ALUMINIUM CONDUCTOR, XLPE INSULATED
COPPER WIRE OR COPPER TAPE SCREENED, ALUMINIUM WIRE ARMoured, AND PVC SHEATHED

Specification:

IEC 60502-2 & SNI IEC 60502-2

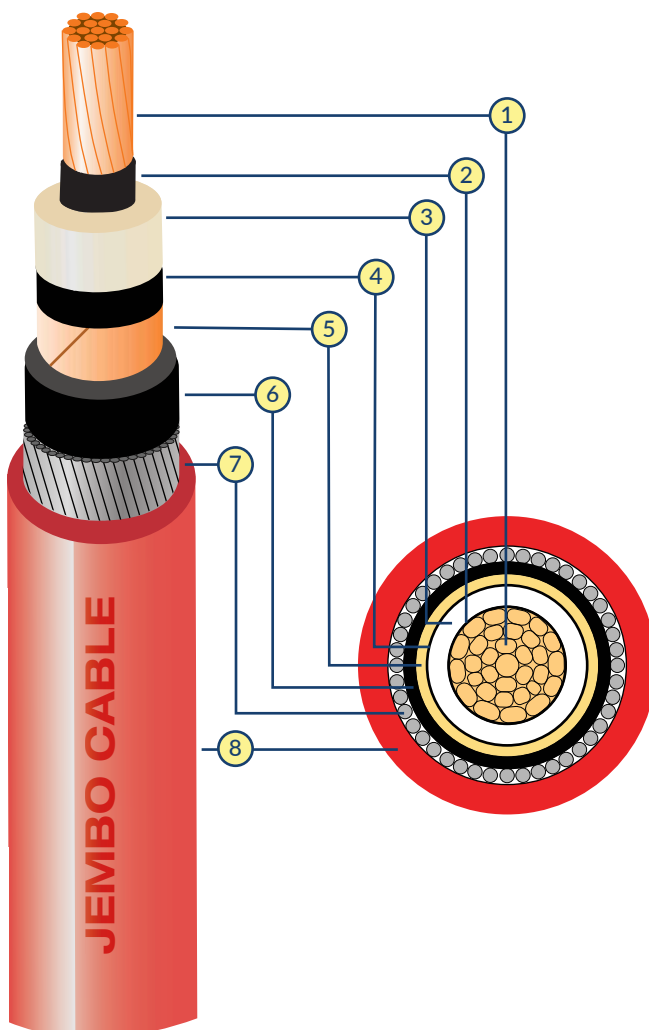
Application:

Suitable for Distribution Indoor and
Outdoor Installation, direct burial or
on Trays

Rated Voltage:

3.6/6 kV (7.2 kV)	12/20 kV (24 kV)
6/10 kV (12 kV)	18/30 kV (36 kV)
8.7/15 kV (17.5 kV)	

CONSTRUCTION



- | | |
|----------------------|---|
| 1. Conductor | : Copper or Aluminium (Compact Circular Stranded) |
| 2. Conductor Screen | : Extruded Semiconductive Compound |
| 3. Insulation | : Extruded Crosslinked Polyethylene (XLPE) |
| 4. Insulation Screen | : Extruded Strippable Semiconductive Compound |
| 5. Metallic Screen | : Copper Wire or Copper Tape |
| 6. Inner Sheath | : Extruded PVC 90°C |
| 7. Armour | : Aluminium Wire |
| 8. Outer Sheath | : Extruded PVC 90°C |

Special Features on Request:

- Oil Resistance
- Flame Retardant Category A,B,C
- Flame Retardant Non Category
- Nylon Coated
- Low Smoke Zero Halogen

N2XSR(AI)Y (CU/XLPE/CWS or CTS/AWA/PVC)

NA2XSR(AI)Y (AL/XLPE/CWS or CTS/AWA/PVC)

Nominal Voltage : 3.6/6 kV
 Maximum System Voltage : 7.2 kV
 Specification : IEC 60502-2 & SNI IEC 60502-2
 Other specifications are available on request

COPPER CONDUCTOR

Nominal Cross Sectional Area			mm ²	16	25	35	50	70	95	120	150	185	240	300	400	500	630
Conductor	Approx. Diameter		mm	4.6	5.8	6.9	8.0	9.6	11.3	12.7	14.1	15.8	18.1	20.3	22.9	26.0	29.6
	Max.DC Resistance at 20°C		Ohm/km	1.15	0.727	0.524	0.387	0.268	0.193	0.153	0.124	0.0991	0.0754	0.0601	0.0470	0.0366	0.0283
Insulation	Nominal Thickness		mm	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.6	2.8	3.0	3.2	3.2
	Min. Resistance at 20°C		MOhm/km	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
Sheath	Nominal Thickness		mm	1.7	1.7	1.7	1.8	1.8	1.9	1.9	2.0	2.1	2.1	2.2	2.3	2.5	2.6
Overall Diameter Approx.			mm	22.7	23.9	25.0	26.3	27.9	29.8	31.2	32.8	35.5	38.0	40.8	44.0	49.1	53.1
Cable Net. Weight Approx.			kg/km	756	886	1016	1183	1428	1743	2021	2335	2827	3444	4132	5040	6380	7882
Standard Length per Reel			m	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	500	500	500	300
Minimum Bending Radius			mm	409	430	450	473	502	536	562	590	639	684	734	792	884	956
Capacitance at 50 Hz			µF/km	0.080	0.091	0.099	0.107	0.120	0.132	0.142	0.152	0.158	0.172	0.183	0.196	0.201	0.218
Inductance at 50 Hz			mH/km	0.469	0.434	0.410	0.388	0.363	0.343	0.329	0.318	0.311	0.298	0.289	0.279	0.276	0.266
Max. Current Carrying Capacity		In Air at 30°C	A	125	163	198	238	296	361	417	473	543	641	735	845	955	1098
		In Ground at 20°C	A	109	140	166	196	239	285	323	361	406	469	526	590	654	737
		In Air at 30°C	A	150	196	238	286	356	434	500	559	637	745	846	938	1030	1150
		In Ground at 20°C	A	113	144	172	203	246	293	332	366	410	470	524	572	620	682
Short Circuit Current at 1 sec			kA	2.16	3.41	4.73	6.41	9.25	12.85	16.21	20.00	25.03	32.89	41.27	52.77	67.76	87.64
AC Voltage Test			kV/5 min	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5

ALUMINIUM CONDUCTOR

Nominal Cross Sectional Area			mm ²	16	25	35	50	70	95	120	150	185	240	300	400	500	630
Conductor	Approx. Diameter		mm	4.6	5.8	6.8	7.9	9.6	11.2	12.7	14.0	15.7	18.0	20.1	22.8	25.9	29.4
	Max.DC Resistance at 20°C		Ohm/km	1.91	1.21	0.868	0.641	0.443	0.32	0.253	0.206	0.164	0.125	0.1	0.0778	0.0605	0.0605
Insulation	Nominal Thickness		mm	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.6	2.8	3.0	3.2	3.2
	Min. Resistance at 20°C		M. Ohm/km	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
Sheath	Nominal Thickness		mm	1.7	1.7	1.7	1.8	1.8	1.9	1.9	2.0	2.1	2.1	2.2	2.3	2.5	2.6
Overall Diameter Approx.			mm	22.7	23.9	24.9	26.2	27.9	29.7	31.2	32.7	35.4	37.9	40.6	43.9	49.0	52.9
Cable Net. Weight Approx.			kg/km	660	734	804	896	1017	1171	1301	1444	1715	1981	2283	2696	3374	3988
Standard Length per Reel			m	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	500	500
Minimum Bending Radius			mm	409	430	448	472	502	535	562	589	637	682	731	790	882	952
Capacitance at 50 Hz			µF/km	0.080	0.090	0.099	0.107	0.119	0.132	0.142	0.151	0.157	0.171	0.182	0.195	0.200	0.217
Inductance at 50 Hz			mH/km	0.471	0.435	0.410	0.388	0.364	0.344	0.330	0.319	0.312	0.298	0.290	0.280	0.277	0.267
Max. Current Carrying Capacity		In Air at 30°C	A	97	127	154	184	230	280	324	368	424	502	577	673	769	894
		In Ground at 20°C	A	84	108	129	152	186	221	252	281	317	367	414	470	526	599
		In Air at 30°C	A	116	153	185	222	278	338	391	440	504	593	677	769	861	981
		In Ground at 20°C	A	88	112	134	157	192	229	260	288	324	373	419	466	513	574
Short Circuit Current at 1 sec			kA	1.44	2.27	3.17	4.29	6.20	8.59	10.86	13.34	16.76	21.99	27.49	35.33	45.43	58.61
AC Voltage Test			kV/5 min	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5

N2XSR(AI)Y (CU/XLPE/CWS or CTS/AWA/PVC)

NA2XSR(AI)Y (AL/XLPE/CWS or CTS/AWA/PVC)

Nominal Voltage : 6/10 kV
 Maximum System Voltage : 12 kV
 Specification : IEC 60502-2 & SNI IEC 60502-2
 Other specifications are available on request

COPPER CONDUCTOR

Nominal Cross Sectional Area			mm ²	16	25	35	50	70	95	120	150	185	240	300	400	500	630
Conductor	Approx. Diameter		mm	4.6	5.8	6.9	8.0	9.6	11.3	12.7	14.1	15.8	18.1	20.3	22.9	26.0	29.6
	Max.DC Resistance at 20°C		Ohm/km	1.15	0.727	0.524	0.387	0.268	0.193	0.153	0.124	0.0991	0.0754	0.0601	0.0470	0.0366	0.0283
Insulation	Nominal Thickness		mm	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
	Min. Resistance at 20°C		MOhm.km	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	2000	2000
Sheath	Nominal Thickness		mm	1.7	1.8	1.8	1.8	1.9	1.9	2.0	2.1	2.1	2.2	2.3	2.4	2.5	2.6
Overall Diameter Approx.			mm	24.5	25.9	27.0	28.1	29.9	31.6	34.0	35.6	37.3	39.8	42.2	46.2	49.5	53.5
Cable Net. Weight Approx.			kg/km	847	992	1125	1283	1546	1853	2225	2552	2951	3580	4240	5275	6425	7929
Standard Length per Reel			m	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	500	500	500	300
Minimum Bending Radius			mm	441	466	486	506	538	569	612	641	671	716	760	832	891	963
Capacitance at 50 Hz			µF/km	0.077	0.086	0.093	0.102	0.112	0.124	0.130	0.138	0.149	0.162	0.174	0.182	0.198	0.215
Inductance at 50 Hz			mH/km	0.484	0.450	0.425	0.401	0.377	0.355	0.346	0.334	0.321	0.307	0.296	0.289	0.278	0.268
Max. Current Carying Capacity		In Air at 30°C	A	125	163	198	238	296	361	417	473	543	641	735	845	955	1098
		In Ground at 20°C	A	109	140	166	196	239	285	323	361	406	469	526	590	654	737
		In Air at 30°C	A	150	196	238	286	356	434	500	559	637	745	846	938	1030	1150
		In Ground at 20°C	A	113	144	172	203	246	293	332	366	410	470	524	572	620	682
Short Circuit Current at 1 sec			kA	2.16	3.41	4.73	6.41	9.25	12.85	16.21	20.00	25.03	32.89	41.27	52.77	67.76	87.64
AC Voltage Test			kV/5 min	21	21	21	21	21	21	21	21	21	21	21	21	21	21

ALUMINIUM CONDUCTOR

Nominal Cross Sectional Area			mm ²	16	25	35	50	70	95	120	150	185	240	300	400	500	630
Conductor	Approx. Diameter		mm	4.6	5.8	6.8	7.9	9.6	11.2	12.7	14.0	15.7	18.0	20.1	22.8	25.9	29.4
	Max.DC Resistance at 20°C		Ohm/km	1.91	1.21	0.868	0.641	0.443	0.32	0.253	0.206	0.164	0.125	0.10	0.0778	0.0605	0.0469
Insulation	Nominal Thickness		mm	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
	Min. Resistance at 20°C		M. Ohm.km	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	2000	2000
Sheath	Nominal Thickness		mm	1.7	1.8	1.8	1.8	1.9	1.9	2.0	2.1	2.1	2.2	2.3	2.4	2.5	2.6
Overall Diameter Approx.			mm	24.5	25.9	26.9	28	29.9	31.5	34.0	35.5	37.2	39.7	42.0	46.1	49.4	53.3
Cable Net. Weight Approx.			kg/km	750	839	913	996	1135	1280	1506	1660	1838	2118	2400	2932	3419	4035
Standard Length per Reel			m	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	500	500
Minimum Bending Radius			mm	441	466	484	504	538	567	612	639	670	715	756	830	889	959
Capacitance at 50 Hz			µF/km	0.076	0.085	0.093	0.101	0.112	0.124	0.129	0.137	0.148	0.161	0.174	0.181	0.197	0.214
Inductance at 50 Hz			mH/km	0.486	0.451	0.426	0.402	0.378	0.356	0.347	0.335	0.322	0.307	0.296	0.290	0.278	0.268
Max. Current Carrying Capacity		In Air at 30°C	A	97	127	154	184	230	280	324	368	424	502	577	673	769	894
		In Ground at 20°C	A	84	108	129	152	186	221	252	281	317	367	414	470	526	599
		In Air at 30°C	A	116	153	185	222	278	338	391	440	504	593	677	769	861	981
		In Ground at 20°C	A	88	112	134	157	192	229	260	288	324	373	419	466	513	574
Short Circuit Current at 1 sec			kA	1.44	2.27	3.17	4.29	6.20	8.59	10.86	13.34	16.76	21.99	27.49	35.33	45.43	58.61
AC Voltage Test			kV/5 min	21	21	21	21	21	21	21	21	21	21	21	21	21	21

N2XSR(AI)Y (CU/XLPE/CWS or CTS/AWA/PVC)

NA2XSR(AI)Y (AL/XLPE/CWS or CTS/AWA/PVC)

Nominal Voltage : 8.7/15 kV
Maximum System Voltage : 17.5 kV
Specification : IEC 60502-2 & SNI IEC 60502-2
Other specifications are available on request

COPPER CONDUCTOR

Nominal Cross Sectional Area		mm ²	25	35	50	70	95	120	150	185	240	300	400	500	630	
Conductor	Approx. Diameter	mm	5.8	6.9	8.0	9.6	11.3	12.7	14.1	15.8	18.1	20.3	22.9	26.0	29.6	
	Max.DC Resistance at 20°C	Ohm/km	0.727	0.524	0.387	0.268	0.193	0.153	0.124	0.0991	0.0754	0.0601	0.047	0.0366	0.0283	
Insulation	Nominal Thickness	mm	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	
	Min. Resistance at 20°C	MOhm.km	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	
Sheath	Nominal Thickness	mm	1.8	1.9	1.9	2.0	2.0	2.1	2.1	2.2	2.3	2.3	2.5	2.6	2.7	
Overall Diameter Approx.		mm	28.1	29.4	30.5	32.3	34.8	36.4	37.8	39.7	42.2	44.4	48.6	52.1	55.9	
Cable Net. Weight Approx.		kg/km	1116	1266	1422	1698	2090	2394	2709	3132	3771	4419	5503	6673	8171	
Standard Length per Reel		m	1000	1000	1000	1000	1000	1000	1000	1000	1000	500	500	300	300	
Minimum Bending Radius		mm	506	529	549	581	626	655	680	715	760	799	875	938	1006	
Capacitance at 50 Hz		µF/km	0.081	0.088	0.095	0.105	0.114	0.121	0.130	0.139	0.151	0.163	0.170	0.184	0.200	
Inductance at 50 Hz		mH/km	0.466	0.442	0.418	0.392	0.374	0.360	0.346	0.334	0.318	0.306	0.299	0.288	0.276	
Max. Current Carrying Capacity		In Air at 30°C	A	163	198	238	296	361	417	473	543	641	735	845	955	1098
		In Ground at 20°C	A	140	166	196	239	285	323	361	406	469	526	590	654	737
		In Air at 30°C	A	196	238	286	356	434	500	559	637	745	846	938	1030	1150
		In Ground at 20°C	A	144	172	203	246	293	332	366	410	470	524	572	620	682
Short Circuit Current at 1 sec		kA	3.41	4.73	6.41	9.25	12.85	16.21	20.00	25.03	32.89	41.27	52.77	67.76	87.64	
AC Voltage Test		kV/5 min	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	

ALUMINIUM CONDUCTOR

Nominal Cross Sectional Area			mm ²	25	35	50	70	95	120	150	185	240	300	400	500	630
Conductor	Approx. Diameter		mm	5.8	6.8	7.9	9.6	11.2	12.7	14.0	15.7	18.0	20.1	22.8	25.9	29.4
	Max.DC Resistance at 20°C		Ohm/km	1.21	0.868	0.641	0.443	0.32	0.253	0.206	0.164	0.125	0.1	0.0778	0.0605	0.0469
Insulation	Nominal Thickness		mm	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
	Min. Resistance at 20°C		MOhm.km	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000
Sheath	Nominal Thickness		mm	1.8	1.9	1.9	2.0	2.0	2.1	2.1	2.2	2.3	2.3	2.5	2.6	2.7
Overall Diameter Approx.			mm	28.1	29.3	30.4	32.3	34.7	36.4	37.7	39.6	42.1	44.2	48.5	52.0	55.7
Cable Net. Weight Approx.			kg/km	963	1048	1135	1287	1517	1674	1817	2019	2308	2579	3159	3666	4276
Standard Length per Reel			m	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	500	500	500
Minimum Bending Radius			mm	506	527	547	581	625	655	679	713	758	796	873	936	1003
Capacitance at 50 Hz			µF/km	0.081	0.088	0.095	0.105	0.113	0.121	0.129	0.138	0.150	0.162	0.169	0.183	0.200
Inductance at 50 Hz			mH/km	0.468	0.443	0.418	0.393	0.375	0.361	0.347	0.334	0.319	0.307	0.300	0.289	0.277
Max. Current Carrying Capacity		In Air at 30°C	A	127	154	184	230	280	324	368	424	502	577	673	769	894
		In Ground at 20°C	A	108	129	152	186	221	252	281	317	367	414	470	526	599
		In Air at 30°C	A	153	185	222	278	338	391	440	504	593	677	769	861	981
		In Ground at 20°C	A	112	134	157	192	229	260	288	324	373	419	466	513	574
Short Circuit Current at 1 sec			kA	2.27	3.17	4.29	6.20	8.59	10.86	13.34	16.76	21.99	27.49	35.33	45.43	58.61
AC Voltage Test			kV/5 min	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5

N2XSR(AI)Y (CU/XLPE/CWS or CTS/AWA/PVC)

NA2XSR(AI)Y (AL/XLPE/CWS or CTS/AWA/PVC)

Nominal Voltage : 12/20 kV
 Maximum System Voltage : 24 kV
 Specification : IEC 60502-2 & SNI IEC 60502-2
 Other specifications are available on request

COPPER CONDUCTOR

Nominal Cross Sectional Area			mm ²	25	35	50	70	95	120	150	185	240	300	400	500	630
Conductor	Approx. Diameter		mm	5.8	6.9	8.0	9.6	11.3	12.7	14.1	15.8	18.1	20.3	22.9	26.0	29.6
	Max.DC Resistance at 20°C		Ohm/km	0.727	0.524	0.387	0.268	0.193	0.153	0.124	0.0991	0.0754	0.0601	0.047	0.0366	0.0283
Insulation	Nominal Thickness		mm	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	Min. Resistance at 20°C		M. Ohm.km	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000
Sheath	Nominal Thickness		mm	1.9	1.9	2.0	2.1	2.1	2.2	2.2	2.3	2.3	2.5	2.6	2.7	2.8
Overall Diameter Approx.			mm	30.3	31.4	32.7	35.3	37.0	38.6	40.0	41.9	44.2	48.0	50.8	54.3	58.3
Cable Net. Weight Approx.			kg/km	1245	1385	1566	1930	2250	2560	2879	3309	3937	4795	5710	6906	8442
Standard Length per Reel			m	1000	1000	1000	1000	1000	1000	1000	1000	1000	500	500	500	300
Minimum Bending Radius			mm	545	565	589	635	666	695	720	754	796	864	914	977	1049
Capacitance at 50 Hz			µF/km	0.078	0.084	0.091	0.098	0.108	0.115	0.123	0.131	0.143	0.148	0.161	0.173	0.188
Inductance at 50 Hz			mH/km	0.481	0.455	0.432	0.410	0.387	0.371	0.357	0.344	0.328	0.322	0.308	0.296	0.285
Max. Current Carying Capacity		In Air at 30°C	A	163	198	238	296	361	417	473	543	641	735	845	955	1098
		In Ground at 20°C	A	140	166	196	239	285	323	361	406	469	526	590	654	737
		In Air at 30°C	A	196	238	286	356	434	500	559	637	745	846	938	1030	1150
		In Ground at 20°C	A	144	172	203	246	293	332	366	410	470	524	572	620	682
Short Circuit Current at 1 sec			kA	3.41	4.73	6.41	9.25	12.85	16.21	20.00	25.03	32.89	41.27	52.77	67.76	87.64
AC Voltage Test			kV/5 min	42	42	42	42	42	42	42	42	42	42	42	42	42

ALUMINIUM CONDUCTOR

Nominal Cross Sectional Area			mm ²	25	35	50	70	95	120	150	185	240	300	400	500	630
Conductor	Approx. Diameter		mm	5.8	6.8	7.9	9.6	11.2	12.7	14.0	15.7	18.0	20.1	22.8	25.9	29.4
	Max.DC Resistance at 20°C		Ohm/km	1.21	0.868	0.641	0.443	0.32	0.253	0.206	0.164	0.125	0.1	0.0778	0.0605	0.0469
Insulation	Nominal Thickness		mm	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	Min. Resistance at 20°C		M. Ohm.km	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000
Sheath	Nominal Thickness		mm	1.9	1.9	2.0	2.1	2.1	2.2	2.2	2.3	2.3	2.5	2.6	2.7	2.7
Overall Diameter Approx.			mm	30.3	31.3	32.6	35.3	36.9	38.6	39.9	41.8	44.1	47.8	50.7	54.2	54.2
Cable Net. Weight Approx.			kg/km	1092	1173	1278	1519	1677	1840	1978	2196	2473	2953	3365	3885	4533
Standard Length per Reel			m	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	500	500	500
Minimum Bending Radius			mm	545	563	587	635	664	695	718	752	794	860	913	976	976
Capacitance at 50 Hz			µF/km	0.077	0.084	0.090	0.098	0.107	0.115	0.122	0.131	0.143	0.148	0.160	0.173	0.187
Inductance at 50 Hz			mH/km	0.483	0.456	0.432	0.411	0.387	0.372	0.359	0.345	0.329	0.322	0.309	0.297	0.285
Max. Current Carying Capacity		In Air at 30°C	A	127	154	184	230	280	324	368	424	502	577	673	769	894
		In Ground at 20°C	A	108	129	152	186	221	252	281	317	367	414	470	526	599
		In Air at 30°C	A	153	185	222	278	338	391	440	504	593	677	769	861	981
		In Ground at 20°C	A	112	134	157	192	229	260	288	324	373	419	466	513	574
Short Circuit Current at 1 sec			kA	2.27	3.17	4.29	6.20	8.59	10.86	13.34	16.76	21.99	27.49	35.33	45.43	58.61
AC Voltage Test			kV/5 min	42	42	42	42	42	42	42	42	42	42	42	42	42

N2XSR(AI)Y (CU/XLPE/CWS or CTS/AWA/PVC)

NA2XSR(AI)Y (AL/XLPE/CWS or CTS/AWA/PVC)

Nominal Voltage : 18/30 kV
 Maximum System Voltage : 36 kV
 Specification : IEC 60502-2 & SNI IEC 60502-2
 Other specifications are available on request

COPPER CONDUCTOR

Nominal Cross Sectional Area			mm ²	50	70	95	120	150	185	240	300	400	500	630
Conductor	Approx. Diameter		mm	8.0	9.6	11.3	12.7	14.1	15.8	18.1	20.3	22.9	26.0	29.6
	Max.DC Resistance at 20°C		Ohm/km	0.387	0.268	0.193	0.153	0.124	0.0991	0.0754	0.0601	0.0470	0.0366	0.0283
Insulation	Nominal Thickness		mm	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
	Min. Resistance at 20°C		M. Ohm.km	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000
Sheath	Nominal Thickness		mm	2.2	2.2	2.3	2.3	2.4	2.5	2.6	2.6	2.7	2.8	3.0
Overall Diameter Approx.			mm	39.7	41.3	43.2	44.6	47.4	49.3	51.8	54.2	57.0	60.5	64.7
Cable Net. Weight Approx.			kg/km	2094	2377	2742	3048	3561	4022	4699	5414	6344	7577	9185
Standard Length per Reel			m	1000	1000	1000	1000	1000	500	500	500	500	300	300
Minimum Bending Radius			mm	715	743	778	803	853	887	932	976	1026	1089	1165
Capacitance at 50 Hz			µF/km	0.080	0.088	0.095	0.102	0.106	0.112	0.122	0.130	0.140	0.151	0.163
Inductance at 50 Hz			mH/km	0.470	0.442	0.418	0.400	0.391	0.377	0.359	0.346	0.331	0.318	0.306
Max. Current Carying Capacity		In Air at 30°C	A	238	296	361	417	473	543	641	735	845	955	1098
		In Ground at 20°C	A	196	239	285	323	361	406	469	526	590	654	737
		In Air at 30°C	A	286	356	434	500	559	637	745	846	938	1030	1150
		In Ground at 20°C	A	203	246	293	332	366	410	470	524	572	620	682
Short Circuit Current at 1 sec			kA	6.41	9.25	12.85	16.21	20.00	25.03	32.89	41.27	52.77	67.76	87.64
AC Voltage Test			kV/5 min	63	63	63	63	63	63	63	63	63	63	63

ALUMINIUM CONDUCTOR

Nominal Cross Sectional Area			mm ²	50	70	95	120	150	185	240	300	400	500	630
Conductor	Approx. Diameter		mm	7.9	9.6	11.2	12.7	14.0	15.7	18.0	20.1	22.8	25.9	29.4
	Max.DC Resistance at 20°C		Ohm/km	0.641	0.443	0.32	0.253	0.206	0.164	0.125	0.10	0.0778	0.0605	0.0469
Insulation	Nominal Thickness		mm	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
	Min. Resistance at 20°C		M. Ohm.km	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000
Sheath	Nominal Thickness		mm	2.2	2.2	2.3	2.3	2.4	2.5	2.6	2.6	2.7	2.8	3.0
Overall Diameter Approx.			mm	39.6	41.3	43.1	44.6	47.3	49.2	51.7	54.0	56.9	60.4	64.5
Cable Net. Weight Approx.			kg/km	1807	1966	2168	2327	2668	2894	3234	3557	3999	4569	5287
Standard Length per Reel			m	1000	1000	1000	1000	1000	1000	1000	500	500	500	300
Minimum Bending Radius			mm	713	743	776	803	851	886	931	972	1024	1087	1161
Capacitance at 50 Hz			µF/km	0.080	0.087	0.095	0.101	0.105	0.112	0.121	0.129	0.140	0.151	0.162
Inductance at 50 Hz			mH/km	0.471	0.442	0.419	0.401	0.393	0.378	0.360	0.347	0.332	0.319	0.306
Max. Current Carrying Capacity		In Air at 30°C	A	184	230	280	324	368	424	502	577	673	769	894
		In Ground at 20°C	A	152	186	221	252	281	317	367	414	470	526	599
		In Air at 30°C	A	222	278	338	391	440	504	593	677	769	861	981
		In Ground at 20°C	A	157	192	229	260	288	324	373	419	466	513	574
Short Circuit Current at 1 sec			kA	4.29	6.20	8.59	10.86	13.34	16.76	21.99	27.49	35.33	45.43	58.61
AC Voltage Test			kV/5 min	63	63	63	63	63	63	63	63	63	63	63

N2XCY (CU/XLPE/CWS/PVC) NA2XCY (AL/XLPE/CWS/PVC) HEAVY DUTY 10 kA FAULT LEVEL

SINGLE - CORE CABLE

COPPER OR ALUMINIUM CONDUCTOR, XLPE INSULATED
COPPER WIRE & TAPE SCREENED AND PVC SHEATHED

Specification:

AS/NZS 1429.1, IEC 60502-2

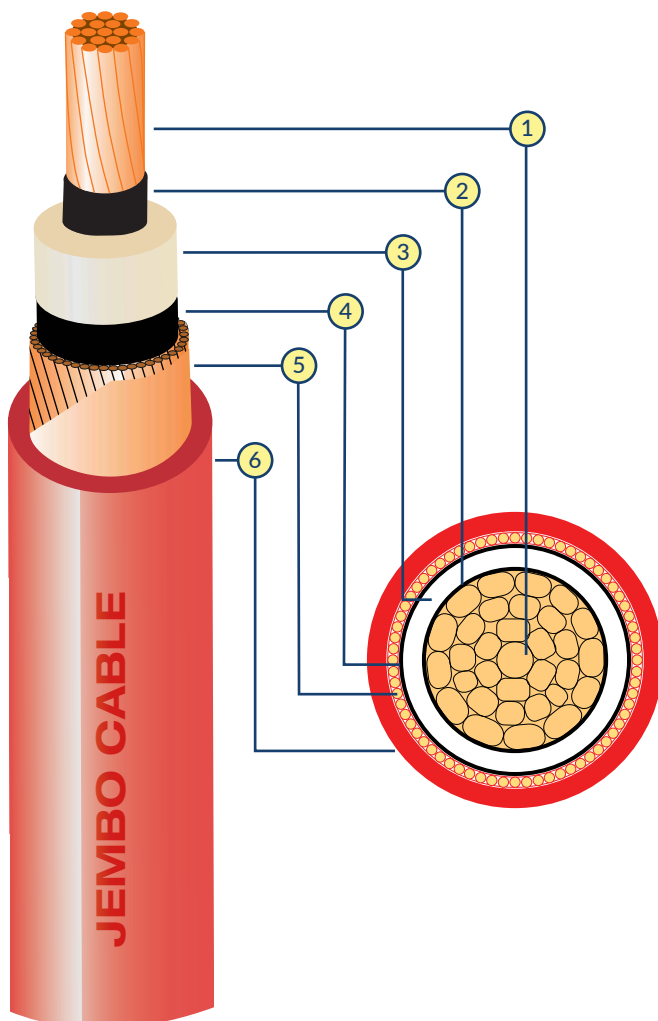
Application:

Suitable for Distribution Indoor and
Outdoor Installation, in conduit,
throughs or on Trays

Rated Voltage:

3.6/6 kV or 3.8/6.6 kV (7.2 kV)
6/10 kV or 6.35/11 kV (12 kV)
12/20 kV or 12.7/22 kV (24 kV)
18/30 kV or 19/33 kV (36 kV)

CONSTRUCTION



- | | |
|----------------------|---|
| 1. Conductor | : Copper or Aluminium (Compact Circular Stranded) |
| 2. Conductor Screen | : Extruded Semiconductive Compound |
| 3. Insulation | : Extruded Crosslinked Polyethylene (XLPE) |
| 4. Insulation Screen | : Extruded Strippable Semiconductive Compound |
| 5. Metallic Screen | : Copper Wire & Tape (Heavy Duty 10 Ka Fault Level) |
| 6. Sheath | : Extruded PVC 90°C |

Special Features on Request:

- Oil Resistance
- Flame Retardant Category A,B,C
- Flame Retardant Non Category
- Nylon Coated
- Low Smoke Zero Halogen

N2XCY (CU/XLPE/CWS/PVC)

NA2XCY (AL/XLPE/CWS/PVC)

HEAVY DUTY 10 kA FAULT LEVEL

Nominal Voltage : 3.6/6 kV or 3.8/6.6 kV
 Maximum System Voltage : 7.2 kV
 Specification : AS/NZS 1429.1, IEC 60502-2
 Other specifications are available on request

COPPER CONDUCTOR, 10 kA Fault Level

Nominal Cross Sectional Area		mm ²	70	95	120	150	185	240	300	400	500	630	
Conductor	Approx. Diameter	mm	9.6	11.3	12.7	14.1	15.8	18.1	20.3	22.9	26.0	29.6	
	Max.DC Resistance at 20°C	Ohm/km	0.268	0.193	0.153	0.124	0.0991	0.0754	0.0601	0.047	0.0366	0.0283	
Insulation	Nominal Thickness	mm	2.5	2.5	2.5	2.5	2.5	2.6	2.8	3.0	3.2	3.2	
	Min. Resistance at 20°C	M. Ohm/km	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	
Sheath	Nominal Thickness	mm	1.7	1.8	1.8	1.9	1.9	2.0	2.1	2.2	2.3	2.4	
Overall Diameter Approx.		mm	24.6	25.8	27.2	28.8	30.5	33.2	36.0	39.2	42.9	46.7	
Cable Net. Weight Approx.		kg/km	1558	1833	2075	2359	2714	3287	3905	4737	5808	7182	
Standard Length per Reel		m	1000	1000	1000	1000	1000	1000	1000	1000	500	500	
Minimum Bending Radius		mm	443	464	490	518	549	598	648	706	772	841	
Capacitance at 50 Hz		µF/km	0.136	0.155	0.168	0.179	0.194	0.211	0.223	0.238	0.255	0.279	
Inductance at 50 Hz		mH/km	0.338	0.315	0.301	0.292	0.281	0.271	0.264	0.256	0.249	0.240	
Max. Current Carrying Capacity		In Air at 30°C	A	296	361	417	473	543	641	735	845	955	1098
		In Ground at 20°C	A	239	285	323	361	406	469	526	590	654	737
		In Air at 30°C	A	356	434	500	559	637	745	846	938	1030	1150
		In Ground at 20°C	A	246	293	332	361	406	469	526	590	620	682
Short Circuit Current at 1 sec		kA	9.25	12.85	16.21	20.00	25.03	32.89	41.27	52.77	67.76	87.64	
AC Voltage Test		kV/5 min	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	

ALUMINIUM CONDUCTOR, 10 kA Fault Level

Nominal Cross Sectional Area		mm²	120	150	185	240	300	400	500	630
Conductor	Approx. Diameter	mm	12.7	14.0	15.7	18.0	20.1	22.8	25.9	29.4
	Max.DC Resistance at 20°C	Ohm/km	0.2530	0.2060	0.1640	0.1250	0.1000	0.0778	0.0605	0.0469
Insulation	Nominal Thickness	mm	2.5	2.5	2.5	2.6	2.8	3.0	3.2	3.2
	Min. Resistance at 20°C	M. Ohm/km	2000	2000	2000	2000	2000	2000	2000	2000
Sheath	Nominal Thickness	mm	1.8	1.9	1.9	2.0	2.1	2.2	2.3	2.4
Overall Diameter Approx.		mm	27.2	28.7	30.4	33.1	35.8	39.1	42.8	46.5
Cable Net. Weight Approx.		kg/km	1356	1469	1603	1826	2068	2395	2804	3291
Standard Length per Reel		m	1000	1000	1000	1000	1000	1000	500	500
Minimum Bending Radius		mm	490	517	547	596	644	704	770	837
Capacitance at 50 Hz		µF/km	0.167	0.178	0.194	0.210	0.222	0.237	0.254	0.278
Inductance at 50 Hz		mH/km	0.302	0.293	0.281	0.271	0.265	0.257	0.250	0.241
Max. Current Carrying Capacity		In Air at 30°C	A	324	368	424	502	577	673	769
		In Ground at 20°C	A	252	281	317	367	414	470	526
		In Air at 30°C	A	391	440	504	593	677	769	861
		In Ground at 20°C	A	260	288	324	373	419	466	513
Short Circuit Current at 1 sec		kA	10.86	13.34	16.76	21.99	27.49	35.33	45.43	58.61
AC Voltage Test		kV/5 min	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5

N2XCY (CU/XLPE/CWS/PVC)

NA2XCY (AL/XLPE/CWS/PVC)

HEAVY DUTY 10 kA FAULT LEVEL

Nominal Voltage : 6/10 kV or 6.35/11 kV
 Maximum System Voltage : 12 kV
 Specification : AS/NZS 1429.1, IEC 60502-2
 Other specifications are available on request

COPPER CONDUCTOR, 10 kA Fault Level

Nominal Cross Sectional Area			mm ²	70	95	120	150	185	240	300	400	500	630
Conductor	Approx. Diameter		mm	9.6	11.3	12.7	14.1	15.8	18.1	20.3	22.9	26.0	29.6
	Max.DC Resistance at 20°C		Ohm/km	0.268	0.193	0.153	0.124	0.0991	0.0754	0.0601	0.047	0.0366	0.0283
Insulation	Nominal Thickness		mm	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
	Min. Resistance at 20°C		M. Ohm/km	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000
Sheath	Nominal Thickness		mm	1.8	1.8	1.9	1.9	2.0	2.1	2.1	2.2	2.3	2.4
Overall Diameter Approx.			mm	26.6	27.6	29.2	30.6	32.5	35.0	37.2	40.0	43.3	47.1
Cable Net. Weight Approx.			kg/km	1635	1903	2163	2437	2812	3384	3970	4784	5834	7210
Standard Length per Reel			m	1000	1000	1000	1000	1000	1000	1000	1000	500	500
Minimum Bending Radius			mm	479	497	526	551	585	630	670	720	779	848
Capacitance at 50 Hz			µF/km	0.125	0.143	0.154	0.165	0.177	0.194	0.211	0.230	0.250	0.274
Inductance at 50 Hz			mH/km	0.354	0.328	0.316	0.304	0.294	0.281	0.271	0.260	0.251	0.242
Max. Current Carrying Capacity		In Air at 30°C	A	296	361	417	473	543	641	735	845	955	1098
		In Ground at 20°C	A	239	285	323	361	406	469	526	590	654	737
		In Air at 30°C	A	356	434	500	559	637	745	846	938	1030	1150
		In Ground at 20°C	A	246	293	332	361	406	469	526	590	620	682
Short Circuit Current at 1 sec			kA	9.25	12.85	16.21	20.00	25.03	32.89	41.27	52.77	67.76	87.64
AC Voltage Test			kV/5 min	21	21	21	21	21	21	21	21	21	21

ALUMINIUM CONDUCTOR, 10 kA Fault Level

Nominal Cross Sectional Area			mm ²	120	150	185	240	300	400	500	630
Conductor	Approx. Diameter		mm	12.7	14.0	15.7	18.0	20.1	22.8	25.9	29.4
	Max.DC Resistance at 20°C		Ohm/km	0.2530	0.2060	0.1640	0.1250	0.1000	0.0778	0.0605	0.0469
Insulation	Nominal Thickness		mm	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
	Min. Resistance at 20°C		M. Ohm/km	3000	3000	3000	3000	3000	3000	3000	3000
Sheath	Nominal Thickness		mm	1.9	1.9	2.0	2.1	2.1	2.2	2.3	2.4
Overall Diameter Approx.			mm	29.2	30.5	32.4	34.9	37.0	39.9	43.2	46.9
Cable Net. Weight Approx.			kg/km	1444	1547	1700	1922	2132	2442	2829	3318
Standard Length per Reel			m	1000	1000	1000	1000	1000	1000	500	500
Minimum Bending Radius			mm	526	549	583	628	666	718	778	844
Capacitance at 50 Hz			µF/km	0.153	0.164	0.177	0.193	0.210	0.228	0.249	0.273
Inductance at 50 Hz			mH/km	0.316	0.305	0.294	0.282	0.271	0.261	0.252	0.243
Max. Current Carrying Capacity		In Air at 30°C	A	324	368	424	502	577	673	769	894
		In Ground at 20°C	A	252	281	317	367	414	470	526	599
		In Air at 30°C	A	391	440	504	593	677	769	861	981
		In Ground at 20°C	A	260	288	324	373	419	466	513	574
Short Circuit Current at 1 sec			kA	10.86	13.34	16.76	21.99	27.49	35.33	45.43	58.61
AC Voltage Test			kV/5 min	21	21	21	21	21	21	21	21

N2XCY (CU/XLPE/CWS/PVC)

NA2XCY (AL/XLPE/CWS/PVC)

HEAVY DUTY 10 kA FAULT LEVEL

Nominal Voltage : 12/20 kV or 12.7/22 kV
 Maximum System Voltage : 24 kV
 Specification : AS/NZS 1429.1, IEC 60502-2
 Other specifications are available on request

COPPER CONDUCTOR, 10 kA Fault Level

Nominal Cross Sectional Area			mm ²	70	95	120	150	185	240	300	400	500	630
Conductor	Approx. Diameter		mm	9.6	11.3	12.7	14.1	15.8	18.1	20.3	22.9	26.0	29.6
	Max.DC Resistance at 20°C		Ohm/km	0.268	0.193	0.153	0.124	0.0991	0.0754	0.0601	0.047	0.0366	0.0283
Insulation	Nominal Thickness		mm	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	Min. Resistance at 20°C		M. Ohm/km	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000
Sheath	Nominal Thickness		mm	1.9	2.0	2.0	2.1	2.1	2.2	2.3	2.4	2.5	2.6
Overall Diameter Approx.			mm	31.0	32.2	33.6	35.2	36.9	39.4	41.8	44.6	47.9	51.7
Cable Net. Weight Approx.			kg/km	1821	2115	2371	2671	3042	3632	4252	5087	6161	7564
Standard Length per Reel			m	1000	1000	1000	1000	1000	1000	500	500	500	300
Minimum Bending Radius			mm	558	580	605	634	664	709	752	803	862	931
Capacitance at 50 Hz			µF/km	0.109	0.122	0.131	0.140	0.151	0.164	0.177	0.192	0.209	0.228
Inductance at 50 Hz			mH/km	0.384	0.359	0.344	0.332	0.319	0.305	0.294	0.282	0.271	0.261
Max. Current Carying Capacity		In Air at 30°C	A	296	361	417	473	543	641	735	845	955	1098
		In Ground at 20°C	A	239	285	323	361	406	469	526	590	654	737
		In Air at 30°C	A	356	434	500	559	637	745	846	938	1030	1150
		In Ground at 20°C	A	246	293	332	361	406	469	526	590	620	682
Short Circuit Current at 1 sec			kA	9.25	12.85	16.21	20.00	25.03	32.89	41.27	52.77	67.76	87.64
AC Voltage Test			kV/5 min	42	42	42	42	42	42	42	42	42	42

ALUMINIUM CONDUCTOR, 10 kA Fault Level

Nominal Cross Sectional Area			mm ²	120	150	185	240	300	400	500	630
Conductor	Approx. Diameter		mm	12.7	14.0	15.7	18.0	20.1	22.8	25.9	29.4
	Max. Resistance at 20°C		Ohm/km	0.2530	0.2060	0.1640	0.1250	0.1000	0.0778	0.0605	0.0469
Insulation	Nominal Thickness		mm	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	Min.DC Resistance at 20°C		M. Ohm/km	5000	5000	5000	5000	5000	5000	5000	5000
Sheath	Nominal Thickness		mm	2.0	2.1	2.1	2.2	2.3	2.4	2.5	2.6
Overall Diameter Approx.			mm	33.6	35.1	36.8	39.3	41.6	44.5	47.8	51.5
Cable Net. Weight Approx.			kg/km	1651	1780	1931	2170	2413	2744	3156	3672
Standard Length per Reel			m	1000	1000	1000	1000	500	500	500	300
Minimum Bending Radius			mm	605	632	662	707	749	801	860	927
Capacitance at 50 Hz			µF/km	0.131	0.139	0.150	0.164	0.176	0.191	0.208	0.228
Inductance at 50 Hz			mH/km	0.345	0.333	0.319	0.305	0.295	0.283	0.272	0.261
Max. Current Carrying Capacity		In Air at 30°C	A	324	368	424	502	577	673	769	894
		In Ground at 20°C	A	252	281	317	367	414	470	526	599
		In Air at 30°C	A	391	440	504	593	677	769	861	981
		In Ground at 20°C	A	260	288	324	373	419	466	513	574
Short Circuit Current at 1 sec			kA	10.86	13.34	16.76	21.99	27.49	35.33	45.43	58.61
AC Voltage Test			kV/5 min	42	42	42	42	42	42	42	42

N2XCY (CU/XLPE/CWS/PVC)

NA2XCY (AL/XLPE/CWS/PVC)

HEAVY DUTY 10 kA FAULT LEVEL

Nominal Voltage : 18/30 kV or 19/33 kV
 Maximum System Voltage : 36 kV
 Specification : AS/NZS 1429.1, IEC 60502-2
 Other specifications are available on request

COPPER CONDUCTOR, 10 kA Fault Level

Nominal Cross Sectional Area		mm ²	70	95	120	150	185	240	300	400	500	630
Conductor	Approx. Diameter	mm	9.6	11.3	12.7	14.1	15.8	18.1	20.3	22.9	26.0	29.6
	Max.DC Resistance at 20°C	Ohm/km	0.268	0.193	0.153	0.124	0.0991	0.0754	0.0601	0.047	0.0366	0.0283
Insulation	Nominal Thickness	mm	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
	Min. Resistance at 20°C	M. Ohm.km	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000
Sheath	Nominal Thickness	mm	2.1	2.1	2.2	2.2	2.3	2.4	2.4	2.6	2.6	2.8
Overall Diameter Approx.		mm	37.2	38.2	39.8	41.2	43.1	45.6	47.8	50.8	53.9	57.9
Cable Net. Weight Approx.		kg/km	2146	2441	2729	3027	3434	4049	4671	5558	6639	8107
Standard Length per Reel		m	1000	1000	1000	500	500	500	500	300	300	300
Minimum Bending Radius		mm	670	688	716	742	776	821	860	914	970	1042
Capacitance at 50 Hz		µF/km	0.094	0.105	0.112	0.119	0.127	0.138	0.149	0.161	0.175	0.190
Inductance at 50 Hz		mH/km	0.421	0.393	0.377	0.363	0.350	0.334	0.321	0.308	0.295	0.283
Max. Current Carying Capacity		In Air at 30°C	A	296	361	417	473	543	641	735	845	1098
		In Ground at 20°C	A	239	285	323	361	406	469	526	590	737
		In Air at 30°C	A	356	434	500	559	637	745	846	938	1150
		In Ground at 20°C	A	246	293	332	361	406	469	526	590	620
Short Circuit Current at 1 sec		kA	9.25	12.85	16.21	20.00	25.03	32.89	41.27	52.77	67.76	87.64
AC Voltage Test		kV/5 min	63	63	63	63	63	63	63	63	63	63

ALUMINIUM CONDUCTOR, 10 kA Fault Level

Nominal Cross Sectional Area			mm ²	120	150	185	240	300	400	500	630
Conductor	Approx. Diameter		mm	12.7	14.0	15.7	18.0	20.1	22.8	25.9	29.4
	Max.DC Resistance at 20°C		Ohm/km	0.2530	0.2060	0.1640	0.1250	0.1000	0.0778	0.0605	0.0469
Insulation	Nominal Thickness		mm	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
	Min. Resistance at 20°C		M. Ohm.km	6000	6000	6000	6000	6000	6000	6000	6000
Sheath	Nominal Thickness		mm	2.2	2.2	2.3	2.4	2.4	2.6	2.6	2.8
Overall Diameter Approx.			mm	39.8	41.1	43.0	45.5	47.6	50.7	53.8	57.7
Cable Net. Weight Approx.			kg/km	2009	2134	2321	2586	2831	3214	3633	4212
Standard Length per Reel			m	1000	500	500	500	500	300	300	300
Minimum Bending Radius			mm	716	740	774	819	857	913	968	1039
Capacitance at 50 Hz			µF/km	0.111	0.119	0.127	0.138	0.148	0.160	0.174	0.189
Inductance at 50 Hz			mH/km	0.378	0.364	0.351	0.335	0.322	0.309	0.295	0.284
Max. Current Carying Capacity		In Air at 30°C	A	324	368	424	502	577	673	769	894
		In Ground at 20°C	A	252	281	317	367	414	470	526	599
		In Air at 30°C	A	391	440	504	593	677	769	861	981
		In Ground at 20°C	A	260	288	324	373	419	466	513	574
Short Circuit Current at 1 sec			kA	10.86	13.34	16.76	21.99	27.49	35.33	45.43	58.61
AC Voltage Test			kV/5 min	63	63	63	63	63	63	63	63

N2XSEBY (CU/XLPE/CTS/DSTA/PVC) NA2XSEBY (AL/XLPE/CTS/DSTA/PVC)

THREE - CORES CABLE

COPPER OR ALUMINIUM CONDUCTOR, XLPE INSULATED,
COPPER TAPE SCREENED, DOUBLE STEEL TAPES ARMoured,
PVC SHEATHED

Specification:

IEC 60502-2 & SNI IEC 60502-2

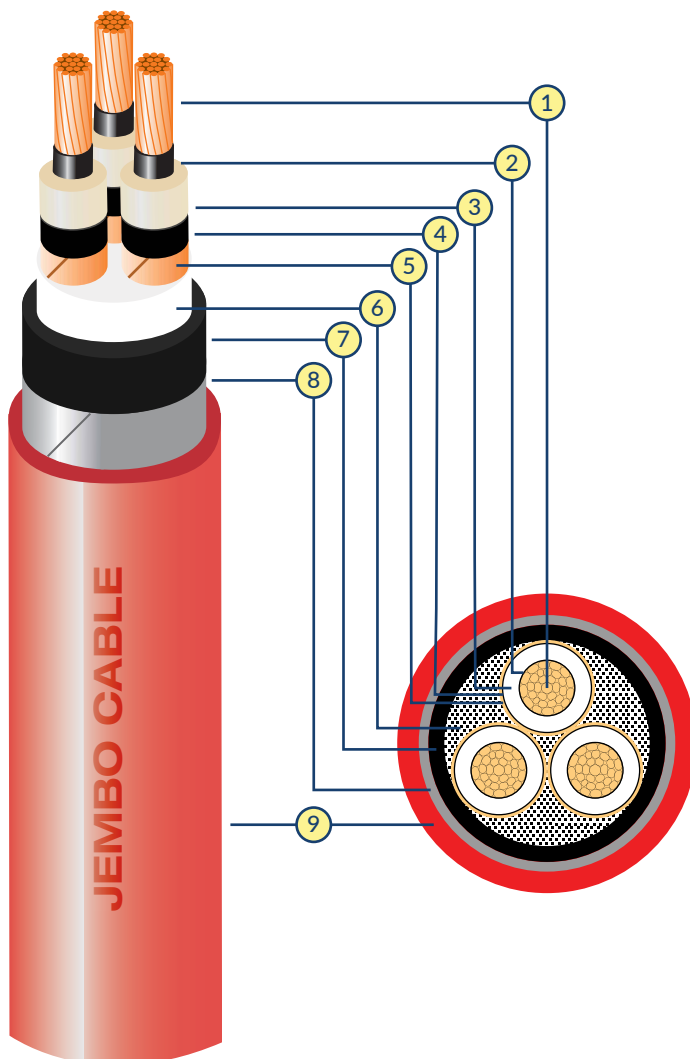
Application:

Suitable for Distribution Indoor and
Outdoor Installation, Direct Burial or on Trays

Rated Voltage:

3.6/6 kV (7.2 kV)	12/20 kV (24 kV)
6/10 kV (12 kV)	18/30 kV (36 kV)
8.7/15 kV (17.5 kV)	

CONSTRUCTION



- | | |
|----------------------|--|
| 1. Conductor | : Copper or Aluminium (Compact Circular Stranded) |
| 2. Conductor Screen | : Extruded Semiconductive Compound |
| 3. Insulation | : Extruded Crosslinked Polyethylene (XLPE) |
| 4. Insulation Screen | : Extruded Strippable Semiconductive Compound |
| 5. Metallic Screen | : Helically Overlapped Copper Tape |
| 6. Filler | : Non Hygroscopic Material |
| 7. Inner Sheath | : Extruded PVC 90°C |
| 8. Armour | : Helically Overlapped Galvanized Steel Tape (Double Tape) |
| 9. Outer Sheath | : Extruded PVC 90°C |

Identification of core by binder tape:
Brown, Black, Grey or by request

Special Features on Request:

- Oil Resistance
- Flame Retardant Category A,B,C
- Flame Retardant Non Category
- Nylon Coated
- Low Smoke Zero Halogen

N2XSEBY (CU/XLPE/CTS/DSTA/PVC)

NA2XSEBY (AL/XLPE/CTS/DSTA/PVC)

Nominal Voltage : 3.6/6 kV
Maximum System Voltage : 7.2 kV
Specification : IEC 60502-2 & SNI IEC 60502-2
Other specifications are available on request

COPPER CONDUCTOR

Nominal Cross Sectional Area		mm ²	16	25	35	50	70	95	120	150	185	240	300	400
Conductor	Approx. Diameter	mm	4.6	5.8	6.9	8.0	9.6	11.3	12.7	14.1	15.8	18.1	20.3	22.9
	Max.DC Resistance at 20°C	Ohm/km	1.15	0.727	0.524	0.387	0.268	0.193	0.153	0.124	0.0991	0.0754	0.0601	0.0470
Insulation	Nominal Thickness	mm	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.6	2.8	3.0
	Min. Resistance at 20°C	M. Ohm.km	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
Sheath	Nominal Thickness	mm	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.1	3.3	3.6
Overall Diameter Approx.		mm	35.5	39.5	41.9	44.8	48.6	52.5	55.9	59.2	63.2	69.2	75.4	84.2
Cable Net. Weight Approx.		kg/km	1685	2438	2853	3383	4205	5176	6087	7068	8360	10398	12600	16387
Standard Length per Reel		m	1000	1000	1000	1000	1000	500	500	500	500	300	300	300
Minimum Bending Radius		mm	639	771	754	806	875	945	1006	1006	1138	1246	1357	1516
Capacitance at 50 Hz		µF/km	0.133	0.155	0.173	0.193	0.221	0.251	0.276	0.300	0.329	0.360	0.380	0.405
Inductance at 50 Hz		mH/km	0.344	0.317	0.299	0.282	0.265	0.251	0.242	0.234	0.227	0.220	0.216	0.212
Max. Current Carrying Capacity	In Air at 30°C	A	110	143	172	205	253	307	352	397	453	529	599	683
	In Ground at 20°C	A	101	129	154	181	220	263	298	332	374	431	482	541
Short Circuit Current at 1 sec		kA	2.16	3.41	4.73	6.41	9.25	12.85	16.21	20.00	25.03	32.89	41.27	52.77
AC Voltage Test		kV/5 min	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5

ALUMINIUM CONDUCTOR

Nominal Cross Sectional Area		mm ²	16	25	35	50	70	95	120	150	185	240	300	400
Conductor	Approx. Diameter	mm	4.6	5.8	6.8	7.9	9.6	11.2	12.7	14.0	15.7	18.0	20.1	22.8
	Max.DC Resistance at 20°C	Ohm/km	1.91	1.21	0.868	0.641	0.443	0.32	0.253	0.206	0.164	0.125	0.1	0.0778
Insulation	Nominal Thickness	mm	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.6	2.8	3.0
	Min. Resistance at 20°C	M. Ohm.km	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
Sheath	Nominal Thickness	mm	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.1	3.3	3.6
Overall Diameter Approx.		mm	35.4	39.4	41.8	44.6	48.5	52.4	55.8	59.0	63.0	69.0	75.0	83.9
Cable Net. Weight Approx.		kg/km	1392	1977	2217	2517	2968	3459	3926	4390	5017	6006	7065	9339
Standard Length per Reel		m	1000	1000	1000	1000	1000	500	500	500	500	300	300	300
Minimum Bending Radius		mm	637	709	752	803	873	943	1004	1062	1134	1242	1350	1510
Capacitance at 50 Hz		µF/km	0.132	0.154	0.172	0.192	0.221	0.250	0.274	0.298	0.327	0.359	0.378	0.403
Inductance at 50 Hz		mH/km	0.345	0.318	0.300	0.283	0.266	0.252	0.242	0.235	0.227	0.220	0.217	0.212
Max. Current Carrying Capacity	In Air at 30°C	A	85	111	133	159	196	238	274	309	354	415	472	545
	In Ground at 20°C	A	78	100	119	140	171	204	232	259	293	338	380	432
Short Circuit Current at 1 sec		kA	1.44	2.27	3.17	4.29	6.20	8.59	10.86	13.34	16.76	21.99	27.49	35.33
AC Voltage Test		kV/5 min	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5

N2XSEBY (CU/XLPE/CTS/DSTA/PVC)

NA2XSEBY (AL/XLPE/CTS/DSTA/PVC)

Nominal Voltage : 6/10 kV
Maximum System Voltage : 12 kV
Specification : IEC 60502-2 & SNI IEC 60502-2
Other specifications are available on request

COPPER CONDUCTOR

Nominal Cross Sectional Area		mm ²	16	25	35	50	70	95	120	150	185	240	300	400
Conductor	Approx. Diameter	mm	4.6	5.8	6.9	8.0	9.6	11.3	12.7	14.1	15.8	18.1	20.3	22.9
	Max.DC Resistance at 20°C	Ohm/km	1.15	0.727	0.524	0.387	0.268	0.193	0.153	0.124	0.0991	0.0754	0.0601	0.0470
Insulation	Nominal Thickness	mm	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
	Min. Resistance at 20°C	M. Ohm.km	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000
Sheath	Nominal Thickness	mm	2.2	2.3	2.4	2.5	2.6	2.7	2.9	3.0	3.1	3.3	3.4	3.7
Overall Diameter Approx.		mm	40.8	43.8	46.2	49.0	52.7	56.8	60.4	63.7	67.7	73.3	78.4	86.1
Cable Net. Weight Approx.		kg/km	2328	2790	3221	3762	4589	5612	6573	7577	8897	10925	13010	16682
Standard Length per Reel		m	1000	1000	1000	1000	1000	500	500	500	500	500	500	300
Minimum Bending Radius		mm	734	788	832	882	949	1022	1087	1147	1219	1319	1411	1550
Capacitance at 50 Hz		µF/km	0.116	0.134	0.149	0.166	0.189	0.213	0.233	0.253	0.276	0.308	0.339	0.375
Inductance at 50 Hz		mH/km	0.371	0.342	0.323	0.304	0.285	0.270	0.259	0.250	0.242	0.232	0.225	0.217
Max. Current Carrying Capacity	In Air at 30°C	A	110	143	172	205	253	307	352	397	453	529	599	683
	In Ground at 20°C	A	101	129	154	181	220	263	298	332	374	431	482	541
Short Circuit Current at 1 sec		kA	2.16	3.41	4.73	6.41	9.25	12.85	16.21	20.00	25.03	32.89	41.27	52.77
AC Voltage Test		kV/5 min	21	21	21	21	21	21	21	21	21	21	21	21

ALUMINIUM CONDUCTOR

Nominal Cross Sectional Area		mm ²	16	25	35	50	70	95	120	150	185	240	300	400
Conductor	Approx. Diameter	mm	4.6	5.8	6.8	7.9	9.6	11.2	12.7	14.0	15.7	18.0	20.1	22.8
	Max.DC Resistance at 20°C	Ohm/km	1.91	1.21	0.868	0.641	0.443	0.32	0.253	0.206	0.164	0.125	0.10	0.0778
Insulation	Nominal Thickness	mm	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
	Min. Resistance at 20°C	M. Ohm.km	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000
Sheath	Nominal Thickness	mm	2.2	2.3	2.4	2.5	2.6	2.7	2.9	3.0	3.1	3.3	3.4	3.7
Overall Diameter Approx.		mm	40.7	43.7	46.1	48.9	52.6	56.7	60.3	63.4	67.5	73.0	78.0	85.8
Cable Net. Weight Approx.		kg/km	2034	2329	2584	2902	3352	3894	4411	4888	5552	6522	7474	9633
Standard Length per Reel		m	1000	1000	1000	1000	1000	500	500	500	300	300	300	300
Minimum Bending Radius		mm	733	787	830	880	947	1021	1085	1141	1215	1314	1404	1544
Capacitance at 50 Hz		µF/km	0.116	0.133	0.149	0.165	0.188	0.212	0.232	0.251	0.275	0.307	0.336	0.374
Inductance at 50 Hz		mH/km	0.373	0.343	0.323	0.305	0.286	0.270	0.259	0.251	0.242	0.233	0.225	0.217
Max. Current Carrying Capacity	In Air at 30°C	A	85	111	133	159	196	238	274	309	354	415	472	545
	In Ground at 20°C	A	78	100	119	140	171	204	232	259	293	338	380	432
Short Circuit Current at 1 sec		kA	1.44	2.27	3.17	4.29	6.20	8.59	10.86	13.34	16.76	21.99	27.49	35.33
AC Voltage Test		kV/5 min	21	21	21	21	21	21	21	21	21	21	21	21

N2XSEBY (CU/XLPE/CTS/DSTA/PVC)

NA2XSEBY (AL/XLPE/CTS/DSTA/PVC)

Nominal Voltage : 8.7/15 kV
 Maximum System Voltage : 17.5 kV
 Specification : IEC 60502-2 & SNI IEC 60502-2
 Other specifications are available on request

COPPER CONDUCTOR

Nominal Cross Sectional Area		mm ²	25	35	50	70	95	120	150	185	240	300	400
Conductor	Approx. Diameter	mm	5.8	6.9	8.0	9.6	11.3	12.7	14.1	15.8	18.1	20.3	22.9
	Max.DC Resistance at 20°C	Ohm/km	0.727	0.524	0.387	0.268	0.193	0.153	0.124	0.0991	0.0754	0.0601	0.047
Insulation	Nominal Thickness	mm	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
	Min. Resistance at 20°C	M.Ohm/km	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000
Sheath	Nominal Thickness	mm	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.3	3.4	3.6	3.9
Overall Diameter Approx.		mm	49.1	51.6	54.4	58.1	62.2	65.6	68.8	73.0	78.4	84.9	91.5
Cable Net. Weight Approx.		kg/km	3266	3723	4288	5144	6200	7162	8180	9565	11602	14555	17552
Standard Length per Reel		m	1000	1000	500	500	500	500	500	300	300	300	300
Minimum Bending Radius		mm	884	929	979	1046	1120	1181	1238	1314	1411	1528	1647
Capacitance at 50 Hz		µF/km	0.117	0.130	0.143	0.162	0.182	0.198	0.214	0.234	0.260	0.284	0.314
Inductance at 50 Hz		mH/km	0.369	0.348	0.328	0.307	0.290	0.278	0.268	0.259	0.248	0.239	0.230
Max. Current Carrying Capacity	In Air at 30°C	A	143	172	205	253	307	352	397	453	529	599	683
	In Ground at 20°C	A	129	154	181	220	263	298	332	374	431	482	541
Short Circuit Current at 1 sec		kA	3.41	4.73	6.41	9.25	12.85	16.21	20.00	25.03	32.89	41.27	52.77
AC Voltage Test		kV/5 min	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5

ALUMINIUM CONDUCTOR

Nominal Cross Sectional Area		mm ²	25	35	50	70	95	120	150	185	240	300	400
Conductor	Approx. Diameter	mm	5.8	6.8	7.9	9.6	11.2	12.7	14.0	15.7	18.0	20.1	22.8
	Max.DC Resistance at 20°C	Ohm/km	1.21	0.868	0.641	0.443	0.32	0.253	0.206	0.164	0.125	0.1	0.0778
Insulation	Nominal Thickness	mm	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
	Min. Resistance at 20°C	M.Ohm/km	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000
Sheath	Nominal Thickness	mm	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.3	3.4	3.6	3.9
Overall Diameter Approx.		mm	49.0	51.5	54.3	58.0	62.0	65.5	68.6	72.9	78.2	84.6	91.2
Cable Net. Weight Approx.		kg/km	2803	3085	3427	3906	4473	4999	5499	6229	7207	9024	10501
Standard Length per Reel		m	1000	1000	500	500	500	500	500	300	300	300	300
Minimum Bending Radius		mm	882	927	977	1044	1116	1179	1235	1312	1408	1523	1642
Capacitance at 50 Hz		µF/km	0.117	0.129	0.143	0.162	0.181	0.198	0.213	0.233	0.259	0.283	0.313
Inductance at 50 Hz		mH/km	0.370	0.349	0.329	0.308	0.291	0.279	0.269	0.259	0.248	0.240	0.231
Max. Current Carrying Capacity	In Air at 30°C	A	111	133	159	196	238	274	309	354	415	472	545
	In Ground at 20°C	A	100	119	140	171	204	232	259	293	338	380	432
Short Circuit Current at 1 sec		kA	2.27	3.17	4.29	6.20	8.59	10.86	13.34	16.76	21.99	27.49	35.33
AC Voltage Test		kV/5 min	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5

N2XSEBY (CU/XLPE/CTS/DSTA/PVC)

NA2XSEBY (AL/XLPE/CTS/DSTA/PVC)

Nominal Voltage : 12/20 kV
Maximum System Voltage : 24 kV
Specification : IEC 60502-2 & SNI IEC 60502-2
Other specifications are available on request

COPPER CONDUCTOR

Nominal Cross Sectional Area		mm ²	35	50	70	95	120	150	185	240	300	400
Conductor	Approx. Diameter	mm	6.9	8.0	9.6	11.3	12.7	14.1	15.8	18.1	20.3	22.9
	Max.DC Resistance at 20°C	Ohm/km	0.524	0.387	0.268	0.193	0.153	0.124	0.0991	0.0754	0.0601	0.047
Insulation	Nominal Thickness	mm	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	Min. Resistance at 20°C	MOhm/km	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000
Sheath	Nominal Thickness	mm	2.7	2.8	2.9	3.1	3.2	3.3	3.4	3.6	3.8	4.0
Overall Diameter Approx.		mm	56.3	59.1	62.8	67.1	70.3	73.8	77.8	84.6	89.7	96.2
Cable Net. Weight Approx.		kg/km	4194	4778	5660	6777	7729	8816	10197	13099	15306	18339
Standard Length per Reel		m	500	500	500	500	500	300	300	300	300	300
Minimum Bending Radius		mm	1013	1064	1130	1208	1265	1328	1400	1523	1615	1732
Capacitance at 50 Hz		µF/km	0.118	0.129	0.146	0.163	0.177	0.190	0.207	0.229	0.250	0.276
Inductance at 50 Hz		mH/km	0.369	0.348	0.325	0.307	0.294	0.283	0.273	0.261	0.251	0.241
Max. Current Carrying Capacity	In Air at 30°C	A	172	205	253	307	352	397	453	529	599	683
	In Ground at 20°C	A	154	181	220	263	298	332	374	431	482	541
Short Circuit Current at 1 sec		kA	4.73	6.41	9.25	12.85	16.21	20.00	25.03	32.89	41.27	52.77
AC Voltage Test		kV/5 min	42	42	42	42	42	42	42	42	42	42

ALUMINIUM CONDUCTOR

Nominal Cross Sectional Area		mm ²	35	50	70	95	120	150	185	240	300	400
Conductor	Approx. Diameter	mm	6.8	7.9	9.6	11.2	12.7	14.0	15.7	18.0	20.1	22.8
	Max.DC Resistance at 20°C	Ohm/km	0.868	0.641	0.443	0.32	0.253	0.206	0.164	0.125	0.1	0.0778
Insulation	Nominal Thickness	mm	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	Min. Resistance at 20°C	MOhm/km	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000
Sheath	Nominal Thickness	mm	2.7	2.8	2.9	3.1	3.2	3.3	3.4	3.6	3.8	4.0
Overall Diameter Approx.		mm	56.2	59	62.7	66.9	70.2	73.5	77.6	84.3	89.3	95.9
Cable Net. Weight Approx.		kg/km	3555	3917	4422	5048	5565	6123	6849	8688	9760	11287
Standard Length per Reel		m	500	500	500	500	500	300	300	300	300	300
Minimum Bending Radius		mm	1012	1062	1129	1204	1264	1323	1397	1517	1607	1726
Capacitance at 50 Hz		µF/km	0.117	0.129	0.145	0.162	0.176	0.189	0.206	0.228	0.249	0.275
Inductance at 50 Hz		mH/km	0.370	0.348	0.326	0.307	0.294	0.284	0.273	0.261	0.252	0.242
Max. Current Carrying Capacity	In Air at 30°C	A	133	159	196	238	274	309	354	415	472	545
	In Ground at 20°C	A	119	140	171	204	232	259	293	338	380	432
Short Circuit Current at 1 sec		kA	3.17	4.29	6.20	8.59	10.86	13.34	16.76	21.99	27.49	35.33
AC Voltage Test		kV/5 min	42	42	42	42	42	42	42	42	42	42

N2XSEBY (CU/XLPE/CTS/DSTA/PVC)

NA2XSEBY (AL/XLPE/CTS/DSTA/PVC)

Nominal Voltage : 18/30 kV
 Maximum System Voltage : 36 kV
 Specification : IEC 60502-2 & SNI IEC 60502-2
 Other specifications are available on request

COPPER CONDUCTOR

Nominal Cross Sectional Area		mm ²	50	70	95	120	150	185	240	300	400
Conductor	Approx. Diameter	mm	8.0	9.6	11.3	12.7	14.1	15.8	18.1	20.3	22.9
	Max.DC Resistance at 20°C	Ohm/km	0.387	0.268	0.193	0.153	0.124	0.0991	0.0754	0.0601	0.0470
Insulation	Nominal Thickness	mm	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
	Min. Resistance at 20°C	M. Ohm/km	6000	6000	6000	6000	6000	6000	6000	6000	6000
Sheath	Nominal Thickness	mm	3.2	3.3	3.5	3.6	3.7	3.9	4.0	4.2	4.4
Overall Diameter Approx.		mm	72.8	76.5	80.8	85.4	88.7	92.9	98.3	103.6	109.9
Cable Net. Weight Approx.		kg/km	6418	7375	8584	10439	11590	13137	15378	17743	20864
Standard Length per Reel		m	500	500	300	300	300	300	300	300	300
Minimum Bending Radius		mm	1310	1377	1454	1537	1597	1672	1769	1865	1978
Capacitance at 50 Hz		µF/km	0.104	0.116	0.128	0.138	0.148	0.160	0.176	0.191	0.209
Inductance at 50 Hz		mH/km	0.395	0.370	0.349	0.334	0.322	0.309	0.294	0.283	0.271
Max. Current Carrying Capacity	In Air at 30°C	A	205	253	307	352	397	453	529	599	683
	In Ground at 20°C	A	181	220	263	298	332	374	431	482	541
Short Circuit Current at 1 sec		kA	6.41	9.25	12.85	16.21	20.00	25.03	32.89	41.27	52.77
AC Voltage Test		kV/5 min	63	63	63	63	63	63	63	63	63

ALUMINIUM CONDUCTOR

Nominal Cross Sectional Area		mm ²	50	70	95	120	150	185	240	300	400
Conductor	Approx. Diameter	mm	7.9	9.6	11.2	12.7	14.0	15.7	18.0	20.1	22.8
	Max.DC Resistance at 20°C	Ohm/km	0.641	0.443	0.32	0.253	0.206	0.164	0.125	0.10	0.0778
Insulation	Nominal Thickness	mm	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
	Min. Resistance at 20°C	M. Ohm/km	6000	6000	6000	6000	6000	6000	6000	6000	6000
Sheath	Nominal Thickness	mm	3.2	3.3	3.5	3.6	3.7	3.9	4.0	4.2	4.4
Overall Diameter Approx.		mm	72.7	76.4	80.7	85.3	88.4	92.7	98.0	103.2	109.6
Cable Net. Weight Approx.		kg/km	5554	6134	6863	8272	8888	9784	10962	12190	13805
Standard Length per Reel		m	500	500	300	300	300	300	300	300	300
Minimum Bending Radius		mm	1309	1375	1453	1535	1591	1669	1764	1858	1973
Capacitance at 50 Hz		µF/km	0.104	0.116	0.128	0.138	0.148	0.159	0.175	0.190	0.208
Inductance at 50 Hz		mH/km	0.396	0.371	0.350	0.334	0.322	0.309	0.295	0.284	0.272
Max. Current Carrying Capacity	In Air at 30°C	A	159	196	238	274	309	354	415	472	545
	In Ground at 20°C	A	140	171	204	232	259	293	338	380	432
Short Circuit Current at 1 sec		kA	4.29	6.20	8.59	10.86	13.34	16.76	21.99	27.49	35.33
AC Voltage Test		kV/5 min	63	63	63	63	63	63	63	63	63

N2XSEYBY NA2XSEYBY

THREE - CORES CABLE

WITH WATER BLOCKING TECHNOLOGY,
COPPER OR ALUMINIUM CONDUCTOR, XLPE INSULATED,
COPPER WIRE & TAPE SCREENED, DOUBLE STEEL TAPES ARMoured, PVC SHEATHED

Specification:

SPLN 43-5-4

Application:

Suitable for Distribution Indoor and
Outdoor Installation, direct burial or
on Trays

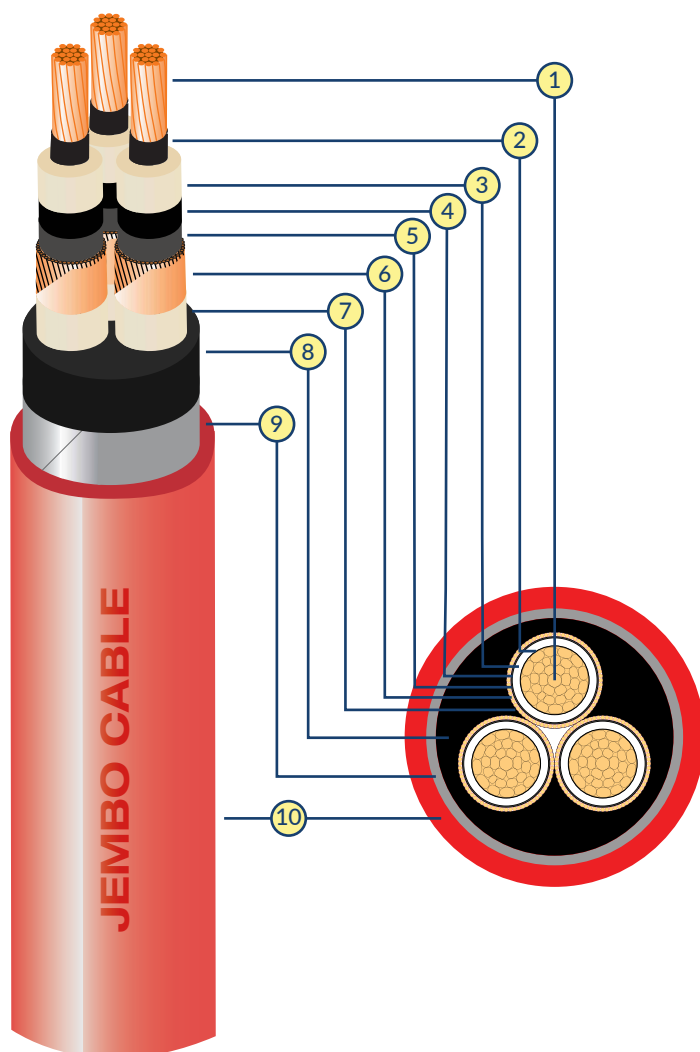
Rated Voltage:

6/10 kV (12 kV)

8.7/15 kV (17.5 kV)

12/20 kV (24 kV)

CONSTRUCTION



- | | |
|----------------------|---|
| 1. Conductor | : Copper or Aluminium (Compact Circular Stranded) |
| 2. Conductor Screen | : Extruded Semiconductive Compound |
| 3. Insulation | : Extruded Crosslinked Polyethylene (XLPE) |
| 4. Insulation Screen | : Extruded Strippable Semiconductive Compound |
| 5. Water Blocking | : Helicaly Overlapped Semiconductive Water Blocking Tape |
| 6. Metallic Screen | : Copper Wire & Tape |
| 7. Water Blocking | : Helicaly Overlapped Non-conductive Water Blocking Tape |
| 8. Inner Sheath | : Extruded PVC 90°C |
| 9. Armour | : Helicaly Overlapped Galvanized Steel Tape (Double Tape) |
| 10. Outer Sheath | : Extruded PVC 90°C |

Identification of core by binder tape:
Red, Yellow, Black

Special Features on Request:

- Oil Resistance
- Flame Retardant Category A,B,C
- Flame Retardant Non Category
- Nylon Coated
- Low Smoke Zero Halogen

N2XSEYBY

NA2XSEYBY

Nominal Voltage : 6/10 kV
 Maximum System Voltage : 12 kV
 Specification : SPLN-43-5-4
 Other specifications are available on request

COPPER CONDUCTOR

Nominal Cross Sectional Area		mm ²	25	35	50	70	95	120	150	185	240
Conductor	Approx. Diameter	mm	5.8	6.9	8.0	9.6	11.3	12.7	14.1	15.8	18.1
	Max.DC Resistance at 20°C	Ohm/km	0.727	0.524	0.387	0.268	0.193	0.153	0.124	0.0991	0.0754
Insulation	Nominal Thickness	mm	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
	Min. Resistance at 20°C	M.Ohm/km	3000	3000	3000	3000	3000	3000	3000	3000	3000
Sheath	Nominal Thickness	mm	3.0	3.1	3.2	3.3	3.5	3.6	3.7	3.8	4.1
Overall Diameter Approx.		mm	51.3	53.7	56.5	60.4	64.7	67.9	71.4	75.4	81.2
Cable Net. Weight Approx.		kg/km	3943	4422	5027	5972	7129	8122	9498	10936	13178
Standard Length per Reel		m	300	300	300	300	300	300	300	300	300
Minimum Bending Radius		mm	923	967	1017	1087	1165	1222	1285	1357	1462
Capacitance at 50 Hz		µF/km	0.134	0.149	0.166	0.189	0.213	0.233	0.253	0.276	0.308
Inductance at 50 Hz		mH/km	0.342	0.323	0.304	0.285	0.270	0.259	0.250	0.242	0.232
Max. Current Carrying Capacity	In Air at 30°C	A	134	173	206	257	313	360	410	469	553
	In Ground at 30°C	A	127	169	200	243	291	331	372	420	487
Short Circuit Current at 1 sec		kA	3.41	4.73	6.41	9.25	12.85	16.21	20.00	25.03	32.89
AC Voltage Test		kV/5 min	21	21	21	21	21	21	21	21	21

ALUMINIUM CONDUCTOR

Nominal Cross Sectional Area		mm ²	35	50	70	95	120	150	185	240
Conductor	Approx. Diameter	mm	6.8	7.9	9.6	11.2	12.7	14.0	15.7	18.0
	Max.DC Resistance at 20°C	Ohm/km	0.868	0.641	0.443	0.32	0.253	0.206	0.164	0.125
Insulation	Nominal Thickness	mm	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
	Min. Resistance at 20°C	M.Ohm/km	3000	3000	3000	3000	3000	3000	3000	3000
Sheath	Nominal Thickness	mm	3.1	3.2	3.3	3.5	3.6	3.7	3.8	4.1
Overall Diameter Approx.		mm	53.6	56.4	60.3	64.6	67.8	71.1	75.2	80.9
Cable Net. Weight Approx.		kg/km	3782	4165	4732	5412	5959	6797	7583	8759
Standard Length per Reel		m	300	300	300	300	300	300	300	300
Minimum Bending Radius		mm	965	1015	1085	1163	1220	1280	1354	1456
Capacitance at 50 Hz		µF/km	0.149	0.165	0.188	0.212	0.232	0.251	0.275	0.307
Inductance at 50 Hz		mH/km	0.323	0.305	0.286	0.270	0.259	0.251	0.242	0.233
Max. Current Carrying Capacity	In Air at 30°C	A	139	160	199	242	280	319	365	431
	In Ground at 30°C	A	127	153	189	226	257	288	327	380
Short Circuit Current at 1 sec		kA	3.17	4.29	6.20	8.59	10.86	13.34	16.76	21.99
AC Voltage Test		kV/5 min	21	21	21	21	21	21	21	21

N2XSEYBY

NA2XSEYBY

Nominal Voltage : 8.7/15 kV
 Maximum System Voltage : 17.5 kV
 Specification : SPLN-43-5-4
 Other specifications are available on request

COPPER CONDUCTOR

Nominal Cross Sectional Area		mm ²	25	35	50	70	95	120	150	185	240	300
Conductor	Approx. Diameter	mm	5.8	6.9	8.0	9.6	11.3	12.7	14.1	15.8	18.1	20.3
	Max.DC Resistance at 20°C	Ohm/km	0.727	0.524	0.387	0.268	0.193	0.153	0.124	0.0991	0.0754	0.0601
Insulation	Nominal Thickness	mm	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
	Min. Resistance at 20°C	M. Ohm/km	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000
Sheath	Nominal Thickness	mm	3.2	3.3	3.4	3.5	3.6	3.7	3.9	4.0	4.2	4.4
Overall Diameter Approx.		mm	56.6	59.3	61.9	65.8	69.9	73.1	76.7	80.7	86.3	92.8
Cable Net. Weight Approx.		kg/km	4530	5077	5681	6667	7835	8860	10287	11765	14025	17232
Standard Length per Reel		m	300	300	300	300	300	300	300	300	300	300
Minimum Bending Radius		mm	1019	1067	1114	1184	1258	1316	1381	1453	1553	1670
Capacitance at 50 Hz		µF/km	0.117	0.130	0.143	0.162	0.182	0.198	0.214	0.234	0.260	0.284
Inductance at 50 Hz		mH/km	0.369	0.348	0.328	0.307	0.290	0.278	0.268	0.259	0.248	0.239
Max. Current Carrying Capacity	In Air at 30°C	A	134	173	206	257	313	360	410	469	553	629
	In Ground at 30°C	A	127	164	194	236	283	322	362	409	474	533
Short Circuit Current at 1 sec		kA	3.41	4.73	6.41	9.25	12.85	16.21	20.00	25.03	32.89	41.27
AC Voltage Test		kV/5 min	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5

ALUMINIUM CONDUCTOR

Nominal Cross Sectional Area		mm ²	35	50	70	95	120	150	185	240	300
Conductor	Approx. Diameter	mm	6.8	7.9	9.6	11.2	12.7	14.0	15.7	18.0	20.1
	Max.DC Resistance at 20°C	Ohm/km	0.868	0.641	0.443	0.32	0.253	0.206	0.164	0.125	0.10
Insulation	Nominal Thickness	mm	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
	Min. Resistance at 20°C	M. Ohm/km	4000	4000	4000	4000	4000	4000	4000	4000	4000
Sheath	Nominal Thickness	mm	3.3	3.4	3.5	3.6	3.7	3.9	4.0	4.2	4.4
Overall Diameter Approx.		mm	59.2	61.8	65.7	69.7	73.0	76.5	80.6	86.1	92.5
Cable Net. Weight Approx.		kg/km	4437	4818	5425	6100	6695	7602	8430	9625	11695
Standard Length per Reel		m	300	300	300	300	300	300	300	300	300
Minimum Bending Radius		mm	1066	1112	1183	1255	1314	1377	1451	1550	1655
Capacitance at 50 Hz		µF/km	0.129	0.143	0.162	0.181	0.198	0.213	0.233	0.259	0.283
Inductance at 50 Hz		mH/km	0.349	0.329	0.308	0.291	0.279	0.269	0.259	0.248	0.240
Max. Current Carrying Capacity	In Air at 30°C	A	139	161	204	242	282	319	365	425	481
	In Ground at 30°C	A	127	148	179	214	246	272	308	358	398
Short Circuit Current at 1 sec		kA	3.17	4.29	6.20	8.59	10.86	13.34	16.76	21.99	27.49
AC Voltage Test		kV/5 min	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5

N2XSEYBY

NA2XSEYBY

Nominal Voltage : 12/20 kV
Maximum System Voltage : 24 kV
Specification : SPLN-43-5-4
Other specifications are available on request

COPPER CONDUCTOR

Nominal Cross Sectional Area		mm ²	25	35	50	70	95	120	150	185	240	300
Conductor	Approx. Diameter	mm	5.8	6.9	8.0	9.6	11.3	12.7	14.1	15.8	18.1	20.3
	Max.DC Resistance at 20°C	Ohm/km	0.727	0.524	0.387	0.268	0.193	0.153	0.124	0.0991	0.0754	0.0601
Insulation	Nominal Thickness	mm	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	Min. Resistance at 20°C	M. Ohm.km	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000
Sheath	Nominal Thickness	mm	3.3	3.4	3.5	3.7	3.8	3.9	4.1	4.2	4.4	4.6
Overall Diameter Approx.		mm	61.1	63.6	66.4	70.5	74.4	77.8	81.4	85.3	92.0	97.4
Cable Net. Weight Approx.		kg/km	5062	5600	6258	7310	8477	9566	11026	12518	15653	18122
Standard Length per Reel		m	300	300	300	300	300	300	300	300	300	300
Minimum Bending Radius		mm	1100	1145	1195	1269	1339	1400	1465	1535	1656	1753
Capacitance at 50 Hz		µF/km	0.107	0.118	0.129	0.146	0.163	0.177	0.190	0.207	0.229	0.250
Inductance at 50 Hz		mH/km	0.391	0.369	0.348	0.325	0.307	0.294	0.283	0.273	0.261	0.251
Max. Current Carrying Capacity	In Air at 30°C	A	134	173	206	257	313	360	410	469	553	629
	In Ground at 30°C	A	127	164	194	236	283	322	362	409	474	533
Short Circuit Current at 1 sec		kA	3.41	4.73	6.41	9.25	12.85	16.21	20.00	25.03	32.89	41.27
AC Voltage Test		kV/5 min	42	42	42	42	42	42	42	42	42	42

ALUMINIUM CONDUCTOR

Nominal Cross Sectional Area		mm ²	35	50	70	95	120	150	185	240	300
Conductor	Approx. Diameter	mm	6.8	7.9	9.6	11.2	12.7	14.0	15.7	18.0	20.1
	Max.DC Resistance at 20°C	Ohm/km	0.868	0.641	0.443	0.32	0.253	0.206	0.164	0.125	0.1
Insulation	Nominal Thickness	mm	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	Min. Resistance at 20°C	M. Ohm.km	5000	5000	5000	5000	5000	5000	5000	5000	5000
Sheath	Nominal Thickness	mm	3.4	3.5	3.7	3.8	3.9	4.1	4.2	4.4	4.6
Overall Diameter Approx.		mm	63.5	66.3	70.4	74.2	77.7	81.2	85.1	91.8	97.0
Cable Net. Weight Approx.		kg/km	4959	5394	6067	6739	7401	8339	9161	11250	12558
Standard Length per Reel		m	300	300	300	300	300	300	300	300	300
Minimum Bending Radius		mm	1143	1193	1267	1336	1399	1462	1532	1652	1746
Capacitance at 50 Hz		µF/km	0.117	0.129	0.145	0.162	0.176	0.189	0.206	0.228	0.249
Inductance at 50 Hz		mH/km	0.370	0.348	0.326	0.307	0.294	0.284	0.273	0.261	0.252
Max. Current Carrying Capacity	In Air at 30°C	A	139	161	204	242	282	319	365	425	481
	In Ground at 30°C	A	127	148	179	214	246	272	308	358	398
Short Circuit Current at 1 sec		kA	3.17	4.29	6.20	8.59	10.86	13.34	16.76	21.99	27.49
AC Voltage Test		kV/5 min	42	42	42	42	42	42	42	42	42

N2XSEFGbY (CU/XLPE/CTS/SFA/PVC)

NA2XSEFGbY (AL/XLPE/CTS/SFA/PVC)

THREE - CORES CABLE

COPPER OR ALUMINIUM CONDUCTOR, XLPE INSULATED, COPPER TAPE SCREENED, FLAT STEEL WIRE & TAPES ARMoured AND PVC SHEATHED

Specification:

IEC 60502-2 & SNI IEC 60502-2

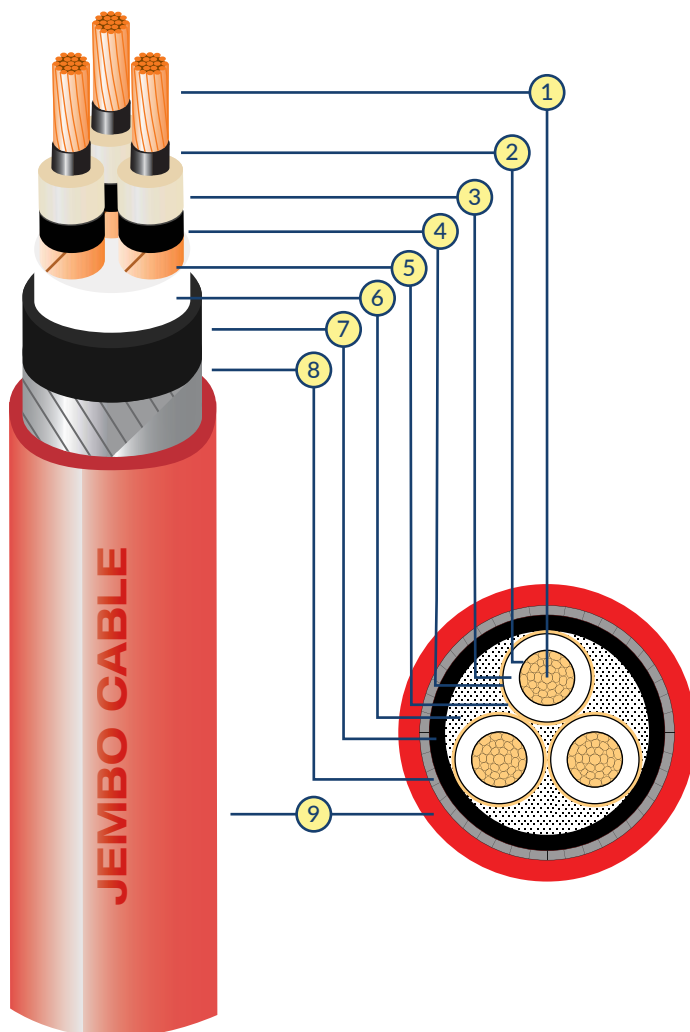
Application:

Suitable for Distribution Indoor and Outdoor Installation, direct burial or on Trays

Rated Voltage:

3.6/6 kV (7.2 kV)	12/20 kV (24 kV)
6/10 kV (12 kV)	18/30 kV (36 kV)
8.7/15 kV (17.5 kV)	

CONSTRUCTION



- | | |
|----------------------|---|
| 1. Conductor | : Copper or Aluminium (Compact Circular Stranded) |
| 2. Conductor Screen | : Extruded Semiconductive Compound |
| 3. Insulation | : Extruded Crosslinked Polyethylene (XLPE) |
| 4. Insulation Screen | : Extruded Strippable Semiconductive Compound |
| 5. Metallic Screen | : Helically Overlapped Copper Tape |
| 6. Filler | : Non Hygroscopic Material |
| 7. Inner Sheath | : Extruded PVC 90°C |
| 8. Armour | : Galvanized Flat Steel Wire & Tape |
| 9. Outer Sheath | : Extruded PVC 90°C |

Identification of core by binder tape: Brown, Black, Grey or by request

Special Features on Request:

- Oil Resistance
- Flame Retardant Category A,B,C
- Flame Retardant Non Category
- Nylon Coated
- Low Smoke Zero Halogen

N2XSEFGbY (CU/XLPE/CTS/SFA/PVC)

NA2XSEFGbY (AL/XLPE/CTS/SFA/PVC)

Nominal Voltage : 3.6/6 kV
Maximum System Voltage : 7.2 kV
Specification : IEC 60502-2 & SNI IEC 60502-2
Other specifications are available on request

COPPER CONDUCTOR

Nominal Cross Sectional Area		mm ²	16	25	35	50	70	95	120	150	185	240	300	400
Conductor	Approx. Diameter	mm	4.6	5.8	6.9	8.0	9.6	11.3	12.7	14.1	15.8	18.1	20.3	22.9
	Max.DC Resistance at 20°C	Ohm/km	1.15	0.727	0.524	0.387	0.268	0.193	0.153	0.124	0.0991	0.0754	0.0601	0.0470
Insulation	Nominal Thickness	mm	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.6	2.8	3.0
	Min. Resistance at 20°C	M. Ohm.km	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
Sheath	Nominal Thickness	mm	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.1	3.3	3.6
Overall Diameter Approx.		mm	36.9	39.7	42.1	45.0	48.8	52.7	56.1	59.4	63.4	69.4	75.6	83.2
Cable Net. Weight Approx.		kg/km	2165	2607	3020	3568	4423	5399	6322	7315	8638	10709	12941	15960
Standard Length per Reel		m	1000	1000	1000	1000	1000	500	500	500	500	300	300	300
Minimum Bending Radius		mm	664	715	758	810	878	949	1010	1069	1141	1249	1361	1498
Capacitance at 50 Hz		µF/km	0.133	0.155	0.173	0.193	0.221	0.251	0.276	0.300	0.329	0.360	0.380	0.405
Inductance at 50 Hz		mH/km	0.344	0.317	0.299	0.282	0.265	0.251	0.242	0.234	0.227	0.220	0.216	0.212
Max. Current Carrying Capacity	In Air at 30°C	A	110	143	172	205	253	307	352	397	453	529	599	683
	In Ground at 20°C	A	101	129	154	181	220	263	298	332	374	431	482	541
Short Circuit Current at 1 sec		kA	2.16	3.41	4.73	6.41	9.25	12.85	16.21	20.00	25.03	32.89	41.27	52.77
AC Voltage Test		kV/5 min	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5

ALUMINIUM CONDUCTOR

Nominal Cross Sectional Area		mm ²	16	25	35	50	70	95	120	150	185	240	300	400
Conductor	Approx. Diameter	mm	4.6	5.8	6.8	7.9	9.6	11.2	12.7	14.0	15.7	18.0	20.1	22.8
	Max.DC Resistance at 20°C	Ohm/km	1.91	1.21	0.868	0.641	0.443	0.32	0.253	0.206	0.164	0.125	0.1	0.0778
Insulation	Nominal Thickness	mm	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.6	2.8	3.0
	Min. Resistance at 20°C	M. Ohm.km	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
Sheath	Nominal Thickness	mm	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.1	3.3	3.6
Overall Diameter Approx.		mm	36.8	39.6	42.0	44.8	48.7	52.6	56.0	59.2	63.2	69.2	75.2	82.9
Cable Net. Weight Approx.		kg/km	1872	2147	2385	2704	3161	3683	4161	4640	5297	6319	7386	8919
Standard Length per Reel		m	1000	1000	1000	1000	1000	1000	500	500	500	500	300	300
Minimum Bending Radius		mm	662	713	756	806	877	947	1008	1066	1138	1246	1354	1492
Capacitance at 50 Hz		µF/km	0.132	0.154	0.172	0.192	0.221	0.250	0.274	0.298	0.327	0.359	0.378	0.403
Inductance at 50 Hz		mH/km	0.345	0.318	0.300	0.283	0.266	0.252	0.242	0.235	0.227	0.220	0.217	0.212
Max. Current Carrying Capacity	In Air at 30°C	A	85	111	133	159	196	238	274	309	354	415	472	545
	In Ground at 20°C	A	78	100	119	140	171	204	232	259	293	338	380	432
Short Circuit Current at 1 sec		kA	1.44	2.27	3.17	4.29	6.20	8.59	10.86	13.34	16.76	21.99	27.49	35.33
AC Voltage Test		kV/5 min	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5

N2XSEFGbY (CU/XLPE/CTS/SFA/PVC)

NA2XSEFGbY (AL/XLPE/CTS/SFA/PVC)

Nominal Voltage : 6/10 kV
Maximum System Voltage : 12 kV
Specification : IEC 60502-2 & SNI IEC 60502-2
Other specifications are available on request

COPPER CONDUCTOR

Nominal Cross Sectional Area		mm ²	16	25	35	50	70	95	120	150	185	240	300	400
Conductor	Approx. Diameter	mm	4.6	5.8	6.9	8.0	9.6	11.3	12.7	14.1	15.8	18.1	20.3	22.9
	Max.DC Resistance at 20°C	Ohm/km	1.15	0.727	0.524	0.387	0.268	0.193	0.153	0.124	0.0991	0.0754	0.0601	0.0470
Insulation	Nominal Thickness	mm	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
	Min. Resistance at 20°C	MOhm.km	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000
Sheath	Nominal Thickness	mm	2.2	2.3	2.4	2.5	2.6	2.7	2.9	3.0	3.1	3.3	3.4	3.7
Overall Diameter Approx.		mm	41.0	44.0	46.4	49.2	52.9	57.0	60.6	63.9	67.9	73.5	78.6	85.1
Cable Net. Weight Approx.		kg/km	2506	2986	3414	3974	4809	5861	6834	7850	9200	11242	13369	16268
Standard Length per Reel		m	1000	1000	1000	1000	1000	500	500	500	300	300	300	300
Minimum Bending Radius		mm	738	792	835	886	952	1026	1091	1150	1222	1323	1415	1532
Capacitance at 50 Hz		µF/km	0.116	0.134	0.149	0.166	0.189	0.213	0.233	0.253	0.276	0.308	0.339	0.375
Inductance at 50 Hz		mH/km	0.371	0.342	0.323	0.304	0.285	0.270	0.259	0.250	0.242	0.232	0.225	0.217
Max. Current Carrying Capacity	In Air at 30°C	A	110	143	172	205	253	307	352	397	453	529	599	683
	In Ground at 20°C	A	101	129	154	181	220	263	298	332	374	431	482	541
Short Circuit Current at 1 sec		kA	2.16	3.41	4.73	6.41	9.25	12.85	16.21	20.00	25.03	32.89	41.27	52.77
AC Voltage Test		kV/5 min	21	21	21	21	21	21	21	21	21	21	21	21

ALUMINIUM CONDUCTOR

Nominal Cross Sectional Area		mm ²	16	25	35	50	70	95	120	150	185	240	300	400
Conductor	Approx. Diameter	mm	4.6	5.8	6.8	7.9	9.6	11.2	12.7	14.0	15.7	18.0	20.1	22.8
	Max.DC Resistance at 20°C	Ohm/km	1.91	1.21	0.868	0.641	0.443	0.32	0.253	0.206	0.164	0.125	0.10	0.0778
Insulation	Nominal Thickness	mm	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
	Min. Resistance at 20°C	MOhm.km	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000
Sheath	Nominal Thickness	mm	2.2	2.3	2.4	2.5	2.6	2.7	2.9	3.0	3.1	3.3	3.4	3.7
Overall Diameter Approx.		mm	40.9	43.9	46.3	49.1	52.8	56.9	60.5	63.6	67.7	73.2	78.2	84.8
Cable Net. Weight Approx.		kg/km	2214	2499	2778	3116	3573	4145	4673	5165	5858	6841	7811	9200
Standard Length per Reel		m	1000	1000	1000	1000	1000	500	500	500	300	300	300	300
Minimum Bending Radius		mm	736	790	833	884	950	1024	1089	1145	1219	1318	1408	1526
Capacitance at 50 Hz		µF/km	0.116	0.133	0.149	0.165	0.188	0.212	0.232	0.251	0.275	0.307	0.336	0.374
Inductance at 50 Hz		mH/km	0.373	0.343	0.323	0.305	0.286	0.270	0.259	0.251	0.242	0.233	0.225	0.217
Max. Current Carrying Capacity	In Air at 30°C	A	85	111	133	159	196	238	274	309	354	415	472	545
	In Ground at 20°C	A	78	100	119	140	171	204	232	259	293	338	380	432
Short Circuit Current at 1 sec		kA	1.44	2.27	3.17	4.29	6.20	8.59	10.86	13.34	16.76	21.99	27.49	35.33
AC Voltage Test		kV/5 min	21	21	21	21	21	21	21	21	21	21	21	21

N2XSEFGbY (CU/XLPE/CTS/SFA/PVC)

NA2XSEFGbY (AL/XLPE/CTS/SFA/PVC)

Nominal Voltage : 8.7/15 kV
 Maximum System Voltage : 17.5 kV
 Specification : IEC 60502-2 & SNI IEC 60502-2
 Other specifications are available on request

COPPER CONDUCTOR

Nominal Cross Sectional Area			mm ²	25	35	50	70	95	120	150	185	240	300	400
Conductor	Approx. Diameter	mm	5.8	6.9	8.0	9.6	11.3	12.7	14.1	15.8	18.1	20.3	22.9	
	Max.DC Resistance at 20°C	Ohm/km	0.727	0.524	0.387	0.268	0.193	0.153	0.124	0.0991	0.0754	0.0601	0.047	
Insulation	Nominal Thickness	mm	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	
	Min. Resistance at 20°C	MOhm.km	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	
Sheath	Nominal Thickness	mm	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.3	3.4	3.6	3.8	
Overall Diameter Approx.			mm	49.3	51.8	54.6	58.3	62.4	65.8	69.0	73.2	78.6	83.9	90.3
Cable Net. Weight Approx.			kg/km	3477	3931	4515	5406	6464	7437	8470	9885	11960	14139	17060
Standard Length per Reel			m	1000	1000	500	500	500	500	500	300	300	300	300
Minimum Bending Radius			mm	887	932	983	1049	1123	1184	1242	1318	1415	1510	1625
Capacitance at 50 Hz			µF/km	0.117	0.130	0.143	0.162	0.182	0.198	0.214	0.234	0.260	0.284	0.314
Inductance at 50 Hz			mH/km	0.369	0.348	0.328	0.307	0.290	0.278	0.268	0.259	0.248	0.239	0.230
Max. Current Carrying Capacity	In Air at 30°C	A	143	172	205	253	307	352	397	453	529	599	683	
	In Ground at 20°C	A	129	154	181	220	263	298	332	374	431	482	541	
Short Circuit Current at 1 sec			kA	3.41	4.73	6.41	9.25	12.85	16.21	20.00	25.03	32.89	41.27	52.77
AC Voltage Test			kV/5 min	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5

ALUMINIUM CONDUCTOR

Nominal Cross Sectional Area			mm ²	25	35	50	70	95	120	150	185	240	300	400
Conductor	Approx. Diameter	mm	5.8	6.8	7.9	9.6	11.2	12.7	14.0	15.7	18.0	20.1	22.8	
	Max.DC Resistance at 20°C	Ohm/km	1.21	0.868	0.641	0.443	0.32	0.253	0.206	0.164	0.125	0.1	0.0778	
Insulation	Nominal Thickness	mm	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	
	Min. Resistance at 20°C	MOhm.km	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	
Sheath	Nominal Thickness	mm	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.3	3.4	3.6	3.8	
Overall Diameter Approx.			mm	49.2	51.7	54.5	58.2	62.2	65.7	68.8	73.1	78.4	83.6	90.0
Cable Net. Weight Approx.			kg/km	3016	3295	3656	4169	4739	5276	5791	6550	7541	8615	10016
Standard Length per Reel			m	1000	1000	500	500	500	500	300	300	300	300	300
Minimum Bending Radius			mm	886	931	981	1048	1120	1183	1238	1316	1411	1505	1620
Capacitance at 50 Hz			µF/km	0.117	0.129	0.143	0.162	0.181	0.198	0.213	0.233	0.259	0.283	0.313
Inductance at 50 Hz			mH/km	0.370	0.349	0.329	0.308	0.291	0.279	0.269	0.259	0.248	0.240	0.231
Max. Current Carrying Capacity	In Air at 30°C	A	111	133	159	196	238	274	309	354	415	472	545	
	In Ground at 20°C	A	100	119	140	171	204	232	259	293	338	380	432	
Short Circuit Current at 1 sec			kA	2.27	3.17	4.29	6.20	8.59	10.86	13.34	16.76	21.99	27.49	35.33
AC Voltage Test			kV/5 min	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5

N2XSEFGbY (CU/XLPE/CTS/SFA/PVC)

NA2XSEFGbY (AL/XLPE/CTS/SFA/PVC)

Nominal Voltage : 12/20 kV
Maximum System Voltage : 24 kV
Specification : IEC 60502-2 & SNI IEC 60502-2
Other specifications are available on request

COPPER CONDUCTOR

Nominal Cross Sectional Area		mm ²	35	50	70	95	120	150	185	240	300	400
Conductor	Approx. Diameter	mm	6.9	8.0	9.6	11.3	12.7	14.1	15.8	18.1	20.3	22.9
	Max.DC Resistance at 20°C	Ohm/km	0.524	0.387	0.268	0.193	0.153	0.124	0.0991	0.0754	0.0601	0.047
Insulation	Nominal Thickness	mm	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	Min. Resistance at 20°C	M. Ohm.km	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000
Sheath	Nominal Thickness	mm	2.7	2.8	2.9	3.1	3.2	3.3	3.4	3.6	3.7	4.0
Overall Diameter Approx.		mm	56.5	59.3	63.0	67.3	70.5	74.0	78.0	83.6	88.5	95.2
Cable Net. Weight Approx.		kg/km	4449	5027	5943	7062	8028	9152	10537	12689	14825	17867
Standard Length per Reel		m	500	500	500	500	500	300	300	300	300	300
Minimum Bending Radius		mm	1017	1067	1134	1211	1269	1332	1404	1505	1593	1714
Capacitance at 50 Hz		µF/km	0.118	0.129	0.146	0.163	0.177	0.190	0.207	0.229	0.250	0.276
Inductance at 50 Hz		mH/km	0.369	0.348	0.325	0.307	0.294	0.283	0.273	0.261	0.251	0.241
Max. Current Carrying Capacity	In Air at 30°C	A	172	205	253	307	352	397	453	529	599	683
	In Ground at 20°C	A	154	181	220	263	298	332	374	431	482	541
Short Circuit Current at 1 sec		kA	4.73	6.41	9.25	12.85	16.21	20.00	25.03	32.89	41.27	52.77
AC Voltage Test		kV/5 min	42	42	42	42	42	42	42	42	42	42

ALUMINIUM CONDUCTOR

Nominal Cross Sectional Area		mm ²	35	50	70	95	120	150	185	240	300	400
Conductor	Approx. Diameter	mm	6.8	7.9	9.6	11.2	12.7	14.0	15.7	18.0	20.1	22.8
	Max.DC Resistance at 20°C	Ohm/km	0.868	0.641	0.443	0.32	0.253	0.206	0.164	0.125	0.1	0.0778
Insulation	Nominal Thickness	mm	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	Min. Resistance at 20°C	M. Ohm.km	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000
Sheath	Nominal Thickness	mm	2.7	2.8	2.9	3.1	3.2	3.3	3.4	3.6	3.7	4.0
Overall Diameter Approx.		mm	56.4	59.2	62.9	67.1	70.4	73.7	77.8	83.3	88.1	94.9
Cable Net. Weight Approx.		kg/km	3786	4167	4705	5336	5866	6436	7192	8259	9289	10821
Standard Length per Reel		m	500	500	500	500	500	500	300	300	300	300
Minimum Bending Radius		mm	1015	1066	1132	1208	1267	1327	1400	1499	1586	1708
Capacitance at 50 Hz		µF/km	0.117	0.129	0.145	0.162	0.176	0.189	0.206	0.228	0.249	0.275
Inductance at 50 Hz		mH/km	0.370	0.348	0.326	0.307	0.294	0.284	0.273	0.261	0.252	0.242
Max. Current Carrying Capacity	In Air at 30°C	A	133	159	196	238	274	309	354	415	472	545
	In Ground at 20°C	A	119	140	171	204	232	259	293	338	380	432
Short Circuit Current at 1 sec		kA	3.17	4.29	6.20	8.59	10.86	13.34	16.76	21.99	27.49	35.33
AC Voltage Test		kV/5 min	42	42	42	42	42	42	42	42	42	42

N2XSEFGbY (CU/XLPE/CTS/SFA/PVC)

NA2XSEFGbY (AL/XLPE/CTS/SFA/PVC)

Nominal Voltage : 18/30 kV
 Maximum System Voltage : 36 kV
 Specification : IEC 60502-2 & SNI IEC 60502-2
 Other specifications are available on request

COPPER CONDUCTOR

Nominal Cross Sectional Area		mm ²	50	70	95	120	150	185	240	300	400
Conductor	Approx. Diameter	mm	8.0	9.6	11.3	12.7	14.1	15.8	18.1	20.3	22.9
	Max.DC Resistance at 20°C	Ohm/km	0.387	0.268	0.193	0.153	0.124	0.0991	0.0754	0.0601	0.0470
Insulation	Nominal Thickness	mm	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
	Min. Resistance at 20°C	M. Ohm.km	6000	6000	6000	6000	6000	6000	6000	6000	6000
Sheath	Nominal Thickness	mm	3.2	3.3	3.5	3.6	3.7	3.8	4.0	4.1	4.4
Overall Diameter Approx.		mm	73.0	76.7	81.0	84.4	87.7	91.7	97.3	102.4	108.9
Cable Net. Weight Approx.		kg/km	6737	7703	8940	10012	11144	12639	14884	17194	20332
Standard Length per Reel		m	500	500	300	300	300	300	300	300	300
Minimum Bending Radius		mm	1314	1381	1458	1519	1579	1651	1751	1843	1960
Capacitance at 50 Hz		µF/km	0.104	0.116	0.128	0.138	0.148	0.160	0.176	0.191	0.209
Inductance at 50 Hz		mH/km	0.395	0.370	0.349	0.334	0.322	0.309	0.294	0.283	0.271
Max. Current Carrying Capacity	In Air at 30°C	A	205	253	307	352	397	453	529	599	683
	In Ground at 20°C	A	181	220	263	298	332	374	431	482	541
Short Circuit Current at 1 sec		kA	6.41	9.25	12.85	16.21	20.00	25.03	32.89	41.27	52.77
AC Voltage Test		kV/5 min	63	63	63	63	63	63	63	63	63

ALUMINIUM CONDUCTOR

Nominal Cross Sectional Area		mm ²	50	70	95	120	150	185	240	300	400
Conductor	Approx. Diameter	mm	7.9	9.6	11.2	12.7	14.0	15.7	18.0	20.1	22.8
	Max.DC Resistance at 20°C	Ohm/km	0.641	0.443	0.32	0.253	0.206	0.164	0.125	0.10	0.0778
Insulation	Nominal Thickness	mm	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
	Min. Resistance at 20°C	M. Ohm.km	6000	6000	6000	6000	6000	6000	6000	6000	6000
Sheath	Nominal Thickness	mm	3.2	3.3	3.5	3.6	3.7	3.8	4.0	4.1	4.4
Overall Diameter Approx.		mm	72.9	76.6	80.9	84.3	87.4	91.5	97.0	102.0	108.6
Cable Net. Weight Approx.		kg/km	5875	6463	7220	7847	8449	9291	10474	11649	13281
Standard Length per Reel		m	500	500	500	300	300	300	300	300	300
Minimum Bending Radius		mm	1312	1379	1456	1517	1573	1647	1746	1836	1955
Capacitance at 50 Hz		µF/km	0.104	0.116	0.128	0.138	0.148	0.159	0.175	0.190	0.208
Inductance at 50 Hz		mH/km	0.396	0.371	0.350	0.334	0.322	0.309	0.295	0.284	0.272
Max. Current Carrying Capacity	In Air at 30°C	A	159	196	238	274	309	354	415	472	545
	In Ground at 20°C	A	140	171	204	232	259	293	338	380	432
Short Circuit Current at 1 sec		kA	4.29	6.20	8.59	10.86	13.34	16.76	21.99	27.49	35.33
AC Voltage Test		kV/5 min	63	63	63	63	63	63	63	63	63

N2XSEYFGbY NA2XSEYFGbY

THREE - CORES CABLE

WITH WATER BLOCKING TECHNOLOGY,
COPPER OR ALUMINIUM CONDUCTOR, XLPE INSULATED,
COPPER WIRE & TAPE SCREENED, FLAT STEEL WIRE & TAPE ARMoured, PVC SHEATHED

Specification:

SPLN 43-5-4

Application:

Suitable for Distribution Indoor and
Outdoor Installation, direct burial or
on Trays

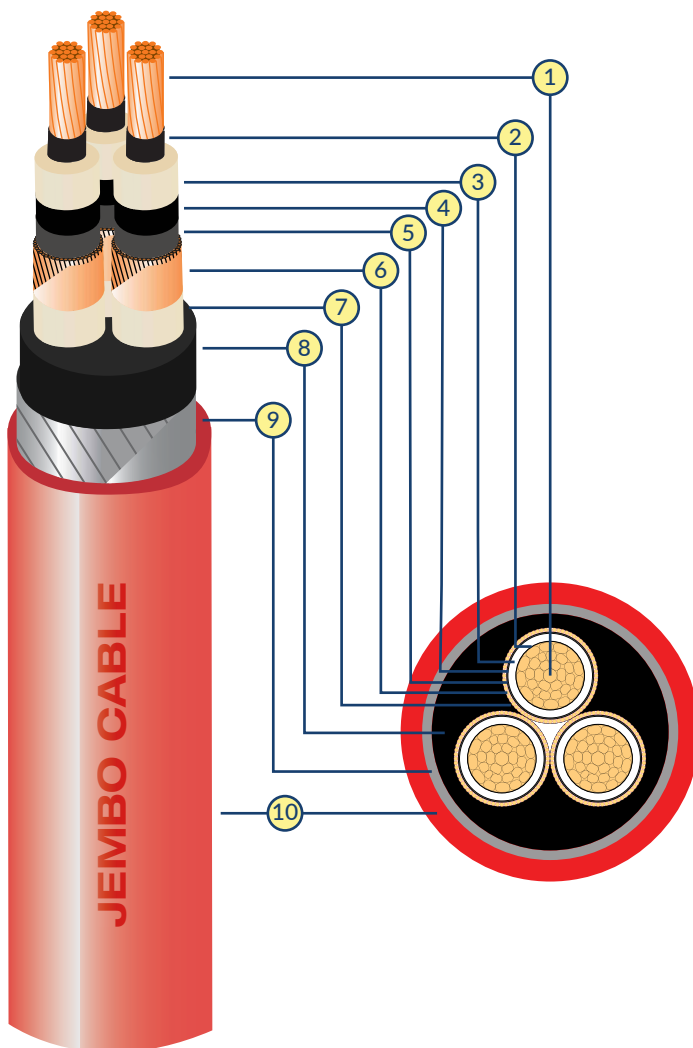
Rated Voltage:

6/10 kV (12 kV)

8.7/15 kV (17.5 kV)

12/20 kV (24 kV)

CONSTRUCTION



- | | |
|----------------------|---|
| 1. Conductor | : Copper or Aluminium (Compact Circular Stranded) |
| 2. Conductor Screen | : Extruded Semiconductive Compound |
| 3. Insulation | : Extruded Crosslinked Polyethylene (XLPE) |
| 4. Insulation Screen | : Extruded Strippable Semiconductive Compound |
| 5. Water Blocking | : Helically Overlapped Semiconductive Water Blocking Tape |
| 6. Metallic Screen | : Copper Wire & Tape |
| 7. Water Blocking | : Helically Overlapped Non-conductive Water Blocking Tape |
| 8. Inner Sheath | : Extruded PVC 90°C |
| 9. Armour | : Galvanized Flat Steel Wire & Tape |
| 10. Outer Sheath | : Extruded PVC 90°C |

Identification of core by binder tape:
Red, Yellow, Black

Special Features on Request:

- Oil Resistance
- Flame Retardant Category A,B,C
- Flame Retardant Non Category
- Nylon Coated
- Low Smoke Zero Halogen

N2XSEYFGbY

NA2XSEYFGbY

Nominal Voltage : 6/10 kV
Maximum System Voltage : 12 kV
Specification : SPLN 43-5-4
Other specifications are available on request

COPPER CONDUCTOR

Nominal Cross Sectional Area		mm ²	25	35	50	70	95	120	150	185	240
Conductor	Approx. Diameter	mm	5.8	6.9	8.0	9.6	11.3	12.7	14.1	15.8	18.1
	Max.DC Resistance at 20°C	Ohm/km	0.727	0.524	0.387	0.268	0.193	0.153	0.124	0.0991	0.0754
Insulation	Nominal Thickness	mm	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
	Min. Resistance at 20°C	M. Ohm/km	3000	3000	3000	3000	3000	3000	3000	3000	3000
Sheath	Nominal Thickness	mm	3.1	3.1	3.2	3.4	3.5	3.6	3.7	3.8	4.0
Overall Diameter Approx.		mm	51.5	53.7	56.5	60.4	64.5	67.9	71.2	75.2	80.8
Cable Net. Weight Approx.		kg/km	4166	4618	5240	6190	7343	8379	9731	11194	13405
Standard Length per Reel		m	300	300	300	300	300	300	300	300	300
Minimum Bending Radius		mm	927	967	1017	1087	1161	1222	1282	1354	1454
Capacitance at 50 Hz		µF/km	0.134	0.149	0.166	0.189	0.213	0.233	0.253	0.276	0.308
Inductance at 50 Hz		mH/km	0.342	0.323	0.304	0.285	0.270	0.259	0.250	0.242	0.232
Max. Current Carrying Capacity	In Air at 30°C	A	134	173	206	257	313	360	410	469	553
	In Ground at 30°C	A	127	169	200	243	291	331	372	420	487
Short Circuit Current at 1 sec		kA	3.41	4.73	6.41	9.25	12.85	16.21	20.00	25.03	32.89
AC Voltage Test		kV/5min	21	21	21	21	21	21	21	21	21

ALUMINIUM CONDUCTOR

Nominal Cross Sectional Area		mm ²	35	50	70	95	120	150	185	240
Conductor	Approx. Diameter	mm	6.8	7.9	9.6	11.2	12.7	14.0	15.7	18.0
	Max.DC Resistance at 20°C	Ohm/km	0.868	0.641	0.443	0.32	0.253	0.206	0.164	0.125
Insulation	Nominal Thickness	mm	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
	Min. Resistance at 20°C	M. Ohm/km	3000	3000	3000	3000	3000	3000	3000	3000
Sheath	Nominal Thickness	mm	3.1	3.2	3.4	3.5	3.6	3.7	3.8	4.0
Overall Diameter Approx.		mm	53.6	56.4	60.3	64.4	67.8	70.9	75.0	80.5
Cable Net. Weight Approx.		kg/km	3980	4380	4951	5627	6217	7033	7844	8991
Standard Length per Reel		m	300	300	300	300	300	300	300	300
Minimum Bending Radius		mm	965	1015	1085	1159	1220	1276	1350	1449
Capacitance at 50 Hz		µF/km	0.149	0.165	0.188	0.212	0.232	0.251	0.275	0.307
Inductance at 50 Hz		mH/km	0.323	0.305	0.286	0.270	0.259	0.251	0.242	0.233
Max. Current Carrying Capacity	In Air at 30°C	A	139	160	199	242	280	318	365	431
	In Ground at 30°C	A	137	153	189	226	257	288	327	380
Short Circuit Current at 1 sec		kA	3.17	4.29	6.20	8.59	10.86	13.34	16.76	21.99
AC Voltage Test		kV/5min	21	21	21	21	21	21	21	21

N2XSEYFGbY

NA2XSEYFGbY

Nominal Voltage : 8.7/15 kV
 Maximum System Voltage : 17.5 kV
 Specification : SPLN 43-5-4
 Other specifications are available on request

COPPER CONDUCTOR

Nominal Cross Sectional Area		mm ²	25	35	50	70	95	120	150	185	240	300
Conductor	Approx. Diameter	mm	5.8	6.9	8.0	9.6	11.3	12.7	14.1	15.8	18.1	20.3
	Max.DC Resistance at 20°C	Ohm/km	0.727	0.524	0.387	0.268	0.193	0.153	0.124	0.0991	0.0754	0.0601
Insulation	Nominal Thickness	mm	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
	Min. Resistance at 20°C	M. Ohm.km	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000
Sheath	Nominal Thickness	mm	3.2	3.3	3.4	3.5	3.7	3.8	3.9	4.0	4.2	4.4
Overall Diameter Approx.		mm	56.6	59.1	61.9	65.6	69.9	73.3	76.5	80.5	86.1	91.4
Cable Net. Weight Approx.		kg/km	4742	5256	5907	6892	8092	9163	10531	12034	14328	16689
Standard Length per Reel		m	300	300	300	300	300	300	300	300	300	300
Minimum Bending Radius		mm	1019	1064	1114	1181	1258	1319	1377	1449	1550	1645
Capacitance at 50 Hz		µF/km	0.117	0.130	0.143	0.162	0.182	0.198	0.214	0.234	0.260	0.284
Inductance at 50 Hz		mH/km	0.369	0.348	0.328	0.307	0.290	0.278	0.268	0.259	0.248	0.239
Max. Current Carrying Capacity	In Air at 30°C	A	134	173	206	257	313	360	410	469	553	629
	In Ground at 30°C	A	127	164	194	236	283	322	362	409	474	533
Short Circuit Current at 1 sec		kA	3.41	4.73	6.41	9.25	12.85	16.21	20.00	25.03	32.89	41.27
AC Voltage Test		kV/5 min	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5

ALUMINIUM CONDUCTOR

Nominal Cross Sectional Area		mm ²	35	50	70	95	120	150	185	240	300
Conductor	Approx. Diameter	mm	6.8	7.9	9.6	11.2	12.7	14.0	15.7	18.0	20.1
	Max.DC Resistance at 20°C	Ohm/km	0.868	0.641	0.443	0.32	0.253	0.206	0.164	0.125	0.10
Insulation	Nominal Thickness	mm	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
	Min. Resistance at 20°C	M. Ohm.km	4000	4000	4000	4000	4000	4000	4000	4000	4000
Sheath	Nominal Thickness	mm	3.3	3.4	3.5	3.7	3.8	3.9	4.0	4.2	4.4
Overall Diameter Approx.		mm	59.0	61.8	65.5	69.7	73.2	76.3	80.4	85.9	91.1
Cable Net. Weight Approx.		kg/km	4616	5046	5652	6359	7000	7848	8701	9904	11159
Standard Length per Reel		m	300	300	300	300	300	300	300	300	300
Minimum Bending Radius		mm	1062	1112	1179	1255	1318	1373	1447	1546	1640
Capacitance at 50 Hz		µF/km	0.129	0.143	0.162	0.181	0.198	0.213	0.233	0.259	0.283
Inductance at 50 Hz		mH/km	0.349	0.329	0.308	0.291	0.279	0.269	0.259	0.248	0.240
Max. Current Carrying Capacity	In Air at 30°C	A	139	161	204	242	282	319	365	425	481
	In Ground at 30°C	A	127	148	179	214	246	272	308	358	398
Short Circuit Current at 1 sec		kA	3.17	4.29	6.20	8.59	10.86	13.34	16.76	21.99	27.49
AC Voltage Test		kV/5 min	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5

N2XSEYFGbY

NA2XSEYFGbY

Nominal Voltage : 12/20 kV
 Maximum System Voltage : 24 kV
 Specification : SPLN 43-5-4
 Other specifications are available on request

COPPER CONDUCTOR

Nominal Cross Sectional Area		mm ²	25	35	50	70	95	120	150	185	240	300
Conductor	Approx. Diameter	mm	5.8	6.9	8.0	9.6	11.3	12.7	14.1	15.8	18.1	20.3
	Max.DC Resistance at 20°C	Ohm/km	0.727	0.524	0.387	0.268	0.193	0.153	0.124	0.0991	0.0754	0.0601
Insulation	Nominal Thickness	mm	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	Min. Resistance at 20°C	M. Ohm.km	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000
Sheath	Nominal Thickness	mm	3.4	3.5	3.6	3.7	3.8	3.9	4.1	4.2	4.4	4.5
Overall Diameter Approx.		mm	61.3	64.0	66.8	70.5	74.6	78.0	81.6	85.7	91.2	96.8
Cable Net. Weight Approx.		kg/km	5325	5916	6568	7587	8792	9893	11391	12927	15256	17736
Standard Length per Reel		m	300	300	300	300	300	300	300	300	300	300
Minimum Bending Radius		mm	1103	1152	1202	1269	1343	1404	1469	1543	1642	1742
Capacitance at 50 Hz		µF/km	0.107	0.118	0.129	0.146	0.163	0.177	0.190	0.207	0.229	0.250
Inductance at 50 Hz		mH/km	0.391	0.369	0.348	0.325	0.307	0.294	0.283	0.273	0.261	0.251
Max. Current Carrying Capacity	In Air at 30°C	A	134	173	206	257	313	360	410	469	553	629
	In Ground at 30°C	A	127	164	194	236	283	322	362	409	474	533
Short Circuit Current at 1 sec		kA	3.41	4.73	6.41	9.25	12.85	16.21	20.00	25.03	32.89	41.27
AC Voltage Test		kV/5min	42	42	42	42	42	42	42	42	42	42

ALUMINIUM CONDUCTOR

Nominal Cross Sectional Area		mm ²	35	50	70	95	120	150	185	240	300
Conductor	Approx. Diameter	mm	6.8	7.9	9.6	11.2	12.7	14.0	15.7	18.0	20.1
	Max.DC Resistance at 20°C	Ohm/km	0.868	0.641	0.443	0.32	0.253	0.206	0.164	0.125	0.1
Insulation	Nominal Thickness	mm	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	Min. Resistance at 20°C	M. Ohm.km	5000	5000	5000	5000	5000	5000	5000	5000	5000
Sheath	Nominal Thickness	mm	3.5	3.6	3.7	3.8	3.9	4.1	4.2	4.4	4.5
Overall Diameter Approx.		mm	63.9	66.7	70.4	74.4	77.9	81.4	85.5	91.0	96.4
Cable Net. Weight Approx.		kg/km	5249	5705	6346	7057	7729	8706	9573	10857	12181
Standard Length per Reel		m	300	300	300	300	300	300	300	300	300
Minimum Bending Radius		mm	1150	1201	1267	1339	1402	1465	1539	1638	1735
Capacitance at 50 Hz		µF/km	0.117	0.129	0.145	0.162	0.176	0.189	0.206	0.228	0.249
Inductance at 50 Hz		mH/km	0.370	0.348	0.326	0.307	0.294	0.284	0.273	0.261	0.252
Max. Current Carrying Capacity	In Air at 30°C	A	139	161	204	242	282	319	365	425	481
	In Ground at 30°C	A	127	148	179	214	246	272	308	358	398
Short Circuit Current at 1 sec		kA	3.17	4.29	6.20	8.59	10.86	13.34	16.76	21.99	27.49
AC Voltage Test		kV/5min	42	42	42	42	42	42	42	42	42

N2XSERY (CU/XLPE/CTS/SWA/PVC)

NA2XSERY (AL/XLPE/CTS/SWA/PVC)

THREE - CORES CABLE

COPPER OR ALUMINIUM CONDUCTOR, XLPE INSULATED, COPPER TAPE SCREENED, STEEL WIRE ARMoured, PVC SHEATHED

Specification:

IEC 60502-2, SNI IEC 60502-2, BS 7835

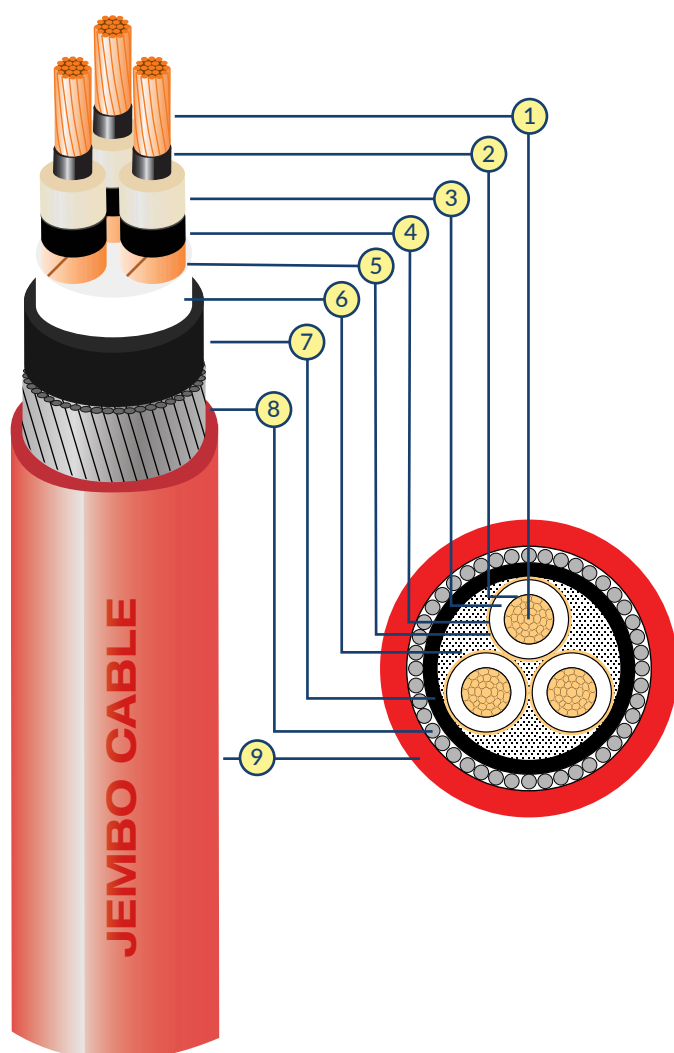
Application:

Suitable for Distribution Indoor and Outdoor Installation, direct burial or on Trays

Rated Voltage:

3.6/6 kV (7.2 kV)	12/20 kV (24 kV)
6/10 kV (12 kV)	18/30 kV (36 kV)
8.7/15 kV (17.5 kV)	

CONSTRUCTION



- | | |
|----------------------|---|
| 1. Conductor | : Copper or Aluminium (Compact Circular Stranded) |
| 2. Conductor Screen | : Extruded Semiconductive Compound |
| 3. Insulation | : Extruded Crosslinked Polyethylene (XLPE) |
| 4. Insulation Screen | : Extruded Strippable Semiconductive Compound |
| 5. Metallic Screen | : Helicaly Overlapped Copper Tape |
| 6. Filler | : Non Hygroscopic Material |
| 7. Inner Sheath | : Extruded PVC 90°C |
| 8. Armour | : Galvanized Steel Wire |
| 9. Outer Sheath | : Extruded PVC 90°C |

Identification of core by binder tape:
Brown, Black, Grey or by request

Special Features on Request:

- Oil Resistance
- Flame Retardant Category A,B,C
- Flame Retardant Non Category
- Nylon Coated
- Low Smoke Zero Halogen

N2XSERY (CU/XLPE/CTS/SWA/PVC)

NA2XSERY (AL/XLPE/CTS/SWA/PVC)

Nominal Voltage : 3.6/6 kV
 Maximum System Voltage : 7.2 kV
 Specification : IEC 60502-2, SNI IEC 60502-2, BS 7835
 Other specifications are available on request

COPPER CONDUCTOR

Nominal Cross Sectional Area		mm ²	16	25	35	50	70	95	120	150	185	240	300	400
Conductor	Approx. Diameter	mm	4.6	5.8	6.9	8.0	9.6	11.3	12.7	14.1	15.8	18.1	20.3	22.9
	Max.DC Resistance at 20°C	Ohm/km	1.15	0.727	0.524	0.387	0.268	0.193	0.153	0.124	0.0991	0.0754	0.0601	0.0470
Insulation	Nominal Thickness	mm	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.6	2.8	3.0
	Min. Resistance at 20°C	MOhm.km	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
Sheath	Nominal Thickness	mm	2.2	2.3	2.3	2.5	2.6	2.7	2.8	2.9	3.0	3.2	3.5	3.8
Overall Diameter Approx.		mm	38.9	41.7	43.9	48.0	51.8	55.7	59.1	62.4	66.4	72.4	80.1	87.7
Cable Net. Weight Approx.		kg/km	2676	3163	3601	4575	5503	6578	7601	8655	10050	12243	15529	18814
Standard Length per Reel		m	1000	1000	1000	1000	500	500	500	500	300	300	300	300
Minimum Bending Radius		mm	700	751	790	864	932	1003	1064	1123	1195	1303	1442	1579
Capacitance at 50 Hz		µF/km	0.133	0.155	0.173	0.193	0.221	0.251	0.276	0.300	0.329	0.360	0.380	0.405
Inductance at 50 Hz		mH/km	0.344	0.317	0.299	0.282	0.265	0.251	0.242	0.234	0.227	0.220	0.216	0.212
Max. Current Carrying Capacity	In Air at 30°C	A	110	143	172	205	253	307	352	397	453	529	599	683
	In Ground at 20°C	A	101	129	154	181	220	263	298	332	374	431	482	541
Short Circuit Current at 1 sec		kA	2.16	3.41	4.73	6.41	9.25	12.85	16.21	20.00	25.03	32.89	41.27	52.77
AC Voltage Test		kV/5 min	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5

ALUMINIUM CONDUCTOR

Nominal Cross Sectional Area		mm ²	16	25	35	50	70	95	120	150	185	240	300	400
Conductor	Approx. Diameter	mm	4.6	5.8	6.8	7.9	9.6	11.2	12.7	14.0	15.7	18.0	20.1	22.8
	Max.DC Resistance at 20°C	Ohm/km	1.91	1.21	0.868	0.641	0.443	0.32	0.253	0.206	0.164	0.125	0.1	0.0778
Insulation	Nominal Thickness	mm	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.6	2.8	3.0
	Min. Resistance at 20°C	MOhm.km	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
Sheath	Nominal Thickness	mm	2.2	2.3	2.3	2.5	2.6	2.7	2.8	2.9	3.0	3.2	3.5	3.8
Overall Diameter Approx.		mm	38.8	41.6	43.8	47.8	51.7	55.6	59.0	62.2	66.2	72.2	79.7	87.4
Cable Net. Weight Approx.		kg/km	2384	2703	2966	3712	4268	4863	5401	5980	6710	7854	9937	11710
Standard Length per Reel		m	1000	1000	1000	1000	500	500	500	500	300	300	300	300
Minimum Bending Radius		mm	698	749	788	860	931	1001	1062	1120	1192	1300	1435	1573
Capacitance at 50 Hz		µF/km	0.132	0.154	0.172	0.192	0.221	0.250	0.274	0.298	0.327	0.359	0.378	0.403
Inductance at 50 Hz		mH/km	0.345	0.318	0.300	0.283	0.266	0.252	0.242	0.235	0.227	0.220	0.217	0.212
Max. Current Carrying Capacity	In Air at 30°C	A	85	111	133	159	196	238	274	309	354	415	472	545
	In Ground at 20°C	A	78	100	119	140	171	204	232	259	293	338	380	432
Short Circuit Current at 1 sec		kA	1.44	2.27	3.17	4.29	6.20	8.59	10.86	13.34	16.76	21.99	27.49	35.33
AC Voltage Test		kV/5 min	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5

N2XSERY (CU/XLPE/CTS/SWA/PVC)

NA2XSERY (AL/XLPE/CTS/SWA/PVC)

Nominal Voltage : 6/10 kV
 Maximum System Voltage : 12 kV
 Specification : IEC 60502-2, SNI IEC 60502-2, BS 7835
 Other specifications are available on request

COPPER CONDUCTOR

Nominal Cross Sectional Area		mm ²	16	25	35	50	70	95	120	150	185	240	300	400
Conductor	Approx. Diameter	mm	4.6	5.8	6.9	8.0	9.6	11.3	12.7	14.1	15.8	18.1	20.3	22.9
	Max.DC Resistance at 20°C	Ohm/km	1.15	0.727	0.524	0.387	0.268	0.193	0.153	0.124	0.0991	0.0754	0.0601	0.0470
Insulation	Nominal Thickness	mm	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
	Min. Resistance at 20°C	M.Ohm.km	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000
Sheath	Nominal Thickness	mm	2.3	2.4	2.5	2.6	2.7	2.9	3.0	3.1	3.2	3.4	3.6	3.8
Overall Diameter Approx.		mm	43.0	47.0	49.4	52.2	55.9	60.2	63.6	66.9	70.9	77.8	83.1	89.4
Cable Net. Weight Approx.		kg/km	3058	3954	4472	5053	5988	7180	8186	9263	10685	13723	16027	19089
Standard Length per Reel		m	1000	1000	1000	500	500	500	500	500	300	300	300	300
Minimum Bending Radius		mm	774	846	889	940	1006	1084	1145	1204	1276	1400	1496	1609
Capacitance at 50 Hz		µF/km	0.116	0.134	0.149	0.166	0.189	0.213	0.233	0.253	0.276	0.308	0.339	0.375
Inductance at 50 Hz		mH/km	0.371	0.342	0.323	0.304	0.285	0.270	0.259	0.250	0.242	0.232	0.225	0.217
Max. Current Carrying Capacity	In Air at 30°C	A	110	143	172	205	253	307	352	397	453	529	599	683
	In Ground at 20°C	A	101	129	154	181	220	263	298	332	374	431	482	541
Short Circuit Current at 1 sec		kA	2.16	3.41	4.73	6.41	9.25	12.85	16.21	20.00	25.03	32.89	41.27	52.77
AC Voltage Test		kV/5 min	21	21	21	21	21	21	21	21	21	21	21	21

ALUMINIUM CONDUCTOR

Nominal Cross Sectional Area		mm ²	16	25	35	50	70	95	120	150	185	240	300	400
Conductor	Approx. Diameter	mm	4.6	5.8	6.8	7.9	9.6	11.2	12.7	14.0	15.7	18.0	20.1	22.8
	Max.DC Resistance at 20°C	Ohm/km	1.91	1.21	0.868	0.641	0.443	0.32	0.253	0.206	0.164	0.125	0.10	0.0778
Insulation	Nominal Thickness	mm	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
	Min. Resistance at 20°C	M.Ohm.km	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000
Sheath	Nominal Thickness	mm	2.3	2.4	2.5	2.6	2.7	2.9	3.0	3.1	3.2	3.4	3.6	3.8
Overall Diameter Approx.		mm	42.9	46.9	49.3	52.1	55.8	60.1	63.5	66.6	70.7	77.5	82.7	89.1
Cable Net. Weight Approx.		kg/km	2765	3494	3836	4195	4752	5423	6026	6578	7343	9260	10497	12049
Standard Length per Reel		m	1000	1000	1000	500	500	500	500	500	300	300	300	300
Minimum Bending Radius		mm	772	844	887	938	1004	1082	1143	1199	1273	1395	1489	1604
Capacitance at 50 Hz		µF/km	0.116	0.133	0.149	0.165	0.188	0.212	0.232	0.251	0.275	0.307	0.336	0.374
Inductance at 50 Hz		mH/km	0.373	0.343	0.323	0.305	0.286	0.270	0.259	0.251	0.242	0.233	0.225	0.217
Max. Current Carrying Capacity	In Air at 30°C	A	85	111	133	159	196	238	274	309	354	415	472	545
	In Ground at 20°C	A	78	100	119	140	171	204	232	259	293	338	380	432
Short Circuit Current at 1 sec		kA	1.44	2.27	3.17	4.29	6.20	8.59	10.86	13.34	16.76	21.99	27.49	35.33
AC Voltage Test		kV/5 min	21	21	21	21	21	21	21	21	21	21	21	21

N2XSERY (CU/XLPE/CTS/SWA/PVC)

NA2XSERY (AL/XLPE/CTS/SWA/PVC)

Nominal Voltage : 8.7/15 kV
 Maximum System Voltage : 17.5 kV
 Specification : IEC 60502-2, SNI IEC 60502-2, BS 7835
 Other specifications are available on request

COPPER CONDUCTOR

Nominal Cross Sectional Area			mm ²	25	35	50	70	95	120	150	185	240	300	400
Conductor	Approx. Diameter	mm	5.8	6.9	8.0	9.6	11.3	12.7	14.1	15.8	18.1	20.3	22.9	
	Max.DC Resistance at 20°C	Ohm/km	0.727	0.524	0.387	0.268	0.193	0.153	0.124	0.0991	0.0754	0.0601	0.047	
Insulation	Nominal Thickness	mm	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	
	Min. Resistance at 20°C	M.Ohm/km	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	
Sheath	Nominal Thickness	mm	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.4	3.6	3.7	4.0	
Overall Diameter Approx.			mm	52.3	54.8	57.6	61.3	65.4	68.8	72.0	77.5	83.1	88.2	94.8
Cable Net. Weight Approx.			kg/km	4596	5099	5745	6708	7865	8898	10031	12303	14618	16923	20089
Standard Length per Reel			m	1000	500	500	500	500	500	300	300	300	300	300
Minimum Bending Radius			mm	941	986	1037	1103	1177	1238	1296	1395	1496	1588	1706
Capacitance at 50 Hz			µF/km	0.117	0.130	0.143	0.162	0.182	0.198	0.214	0.234	0.260	0.284	0.314
Inductance at 50 Hz			mH/km	0.369	0.348	0.328	0.307	0.290	0.278	0.268	0.259	0.248	0.239	0.230
Max. Current Carrying Capacity	In Air at 30°C	A	143	172	205	253	307	352	397	453	529	599	683	
	In Ground at 20°C	A	129	154	181	220	263	298	332	374	431	482	541	
Short Circuit Current at 1 sec			kA	3.41	4.73	6.41	9.25	12.85	16.21	20.00	25.03	32.89	41.27	52.77
AC Voltage Test			kV/5 min	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5

ALUMINIUM CONDUCTOR

Nominal Cross Sectional Area			mm ²	25	35	50	70	95	120	150	185	240	300	400
Conductor	Approx. Diameter	mm	5.8	6.8	7.9	9.6	11.2	12.7	14.0	15.7	18.0	20.1	22.8	
	Max.DC Resistance at 20°C	Ohm/km	1.21	0.868	0.641	0.443	0.32	0.253	0.206	0.164	0.125	0.1	0.0778	
Insulation	Nominal Thickness	mm	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	
	Min. Resistance at 20°C	M.Ohm/km	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	
Sheath	Nominal Thickness	mm	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.4	3.6	3.7	4.0	
Overall Diameter Approx.			mm	52.2	54.7	57.5	61.2	65.2	68.7	71.8	77.4	82.9	87.9	94.5
Cable Net. Weight Approx.			kg/km	4095	4463	4886	5472	6141	6737	7313	8969	10226	11400	13046
Standard Length per Reel			m	1000	500	500	500	500	500	300	300	300	300	300
Minimum Bending Radius			mm	940	985	1035	1102	1174	1237	1292	1393	1492	1582	1701
Capacitance at 50 Hz			µF/km	0.117	0.129	0.143	0.162	0.181	0.198	0.213	0.233	0.259	0.283	0.313
Inductance at 50 Hz			mH/km	0.370	0.349	0.329	0.308	0.291	0.279	0.269	0.259	0.248	0.240	0.231
Max. Current Carrying Capacity	In Air at 30°C	A	111	133	159	196	238	274	309	354	415	472	545	
	In Ground at 20°C	A	100	119	140	171	204	232	259	293	338	380	432	
Short Circuit Current at 1 sec			kA	2.27	3.17	4.29	6.20	8.59	10.86	13.34	16.76	21.99	27.49	35.33
AC Voltage Test			kV/5 min	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5

N2XSERY (CU/XLPE/CTS/SWA/PVC)

NA2XSERY (AL/XLPE/CTS/SWA/PVC)

Nominal Voltage : 12/20 kV
Maximum System Voltage : 24 kV
Specification : IEC 60502-2, SNI IEC 60502-2, BS 7835
Other specifications are available on request

COPPER CONDUCTOR

Nominal Cross Sectional Area		mm ²	35	50	70	95	120	150	185	240	300	400
Conductor	Approx. Diameter	mm	6.9	8.0	9.6	11.3	12.7	14.1	15.8	18.1	20.3	22.9
	Max.DC Resistance at 20°C	Ohm/km	0.524	0.387	0.268	0.193	0.153	0.124	0.0991	0.0754	0.0601	0.047
Insulation	Nominal Thickness	mm	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	Min. Resistance at 20°C	M. Ohm.km	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000
Sheath	Nominal Thickness	mm	2.8	2.9	3.1	3.2	3.3	3.4	3.6	3.7	3.9	4.1
Overall Diameter Approx.		mm	59.5	62.3	66.2	70.3	74.8	78.3	82.5	87.9	93.0	99.5
Cable Net. Weight Approx.		kg/km	5701	6367	7387	8575	10377	11606	13158	15475	17819	21018
Standard Length per Reel		m	500	500	500	500	300	300	300	300	300	300
Minimum Bending Radius		mm	1071	1121	1192	1265	1346	1409	1485	1582	1674	1791
Capacitance at 50 Hz		µF/km	0.118	0.129	0.146	0.163	0.177	0.190	0.207	0.229	0.250	0.276
Inductance at 50 Hz		mH/km	0.369	0.348	0.325	0.307	0.294	0.283	0.273	0.261	0.251	0.241
Max. Current Carrying Capacity	In Air at 30°C	A	172	205	253	307	352	397	453	529	599	683
	In Ground at 20°C	A	154	181	220	263	298	332	374	431	482	541
Short Circuit Current at 1 sec		kA	4.73	6.41	9.25	12.85	16.21	20.00	25.03	32.89	41.27	52.77
AC Voltage Test		kV/5 min	42	42	42	42	42	42	42	42	42	42

ALUMINIUM CONDUCTOR

Nominal Cross Sectional Area		mm ²	35	50	70	95	120	150	185	240	300	400
Conductor	Approx. Diameter	mm	6.8	7.9	9.6	11.2	12.7	14.0	15.7	18.0	20.1	22.8
	Max.DC Resistance at 20°C	Ohm/km	0.868	0.641	0.443	0.32	0.253	0.206	0.164	0.125	0.1	0.0778
Insulation	Nominal Thickness	mm	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
	Min. Resistance at 20°C	M. Ohm.km	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000
Sheath	Nominal Thickness	mm	2.8	2.9	3.1	3.2	3.3	3.4	3.6	3.7	3.9	4.1
Overall Diameter Approx.		mm	59.4	62.2	66.1	70.1	74.7	78.0	82.3	87.6	92.6	99.2
Cable Net. Weight Approx.		kg/km	5064	5507	6110	6849	8215	8917	9814	11072	12284	13973
Standard Length per Reel		m	500	500	500	500	300	300	300	300	300	300
Minimum Bending Radius		mm	1069	1120	1190	1262	1345	1404	1481	1577	1667	1786
Capacitance at 50 Hz		µF/km	0.117	0.129	0.145	0.162	0.176	0.189	0.206	0.228	0.249	0.275
Inductance at 50 Hz		mH/km	0.370	0.348	0.326	0.307	0.294	0.284	0.273	0.261	0.252	0.242
Max. Current Carrying Capacity	In Air at 30°C	A	133	159	196	238	274	309	354	415	472	545
	In Ground at 20°C	A	119	140	171	204	232	259	293	338	380	432
Short Circuit Current at 1 sec		kA	3.17	4.29	6.20	8.59	10.86	13.34	16.76	21.99	27.49	35.33
AC Voltage Test		kV/5 min	42	42	42	42	42	42	42	42	42	42

N2XSERY (CU/XLPE/CTS/SWA/PVC)

NA2XSERY (AL/XLPE/CTS/SWA/PVC)

Nominal Voltage : 18/30 kV
Maximum System Voltage : 36 kV
Specification : IEC 60502-2, SNI IEC 60502-2, BS 7835
Other specifications are available on request

COPPER CONDUCTOR

Nominal Cross Sectional Area		mm ²	50	70	95	120	150	185	240	300
Conductor	Approx. Diameter	mm	8.0	9.6	11.3	12.7	14.1	15.8	18.1	20.3
	Max.DC Resistance at 20°C	Ohm/km	0.387	0.268	0.193	0.153	0.124	0.0991	0.0754	0.0601
Insulation	Nominal Thickness	mm	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
	Min. Resistance at 20°C	M. Ohm/km	6000	6000	6000	6000	6000	6000	6000	6000
Sheath	Nominal Thickness	mm	3.4	3.5	3.6	3.7	3.8	4.0	4.1	4.3
Overall Diameter Approx.		mm	77.5	81.2	85.3	88.7	92.0	96.2	101.6	106.9
Cable Net. Weight Approx.		kg/km	9190	10288	11656	12859	14059	15766	18131	20628
Standard Length per Reel		m	300	300	300	300	300	300	250	250
Minimum Bending Radius		mm	1395	1462	1535	1597	1656	1732	1829	1924
Capacitance at 50 Hz		µF/km	0.104	0.116	0.128	0.138	0.148	0.160	0.176	0.191
Inductance at 50 Hz		mH/km	0.395	0.370	0.349	0.334	0.322	0.309	0.294	0.283
Max. Current Carrying Capacity	In Air at 30°C	A	205	253	307	352	397	453	529	599
	In Ground at 20°C	A	181	220	263	298	332	374	431	482
Short Circuit Current at 1 sec		kA	6.41	9.25	12.85	16.21	20.00	25.03	32.89	41.27
AC Voltage Test		kV/5 min	63	63	63	63	63	63	63	63

ALUMINIUM CONDUCTOR

Nominal Cross Sectional Area		mm ²	50	70	95	120	150	185	240	300
Conductor	Approx. Diameter	mm	7.9	9.6	11.2	12.7	14.0	15.7	18.0	20.1
	Max.DC Resistance at 20°C	Ohm/km	0.641	0.443	0.32	0.253	0.206	0.164	0.125	0.10
Insulation	Nominal Thickness	mm	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
	Min. Resistance at 20°C	M. Ohm/km	6000	6000	6000	6000	6000	6000	6000	6000
Sheath	Nominal Thickness	mm	3.4	3.5	3.6	3.7	3.8	4.0	4.1	4.3
Overall Diameter Approx.		mm	77.4	81.1	85.2	88.6	91.7	96.0	101.3	106.5
Cable Net. Weight Approx.		kg/km	8329	9049	9936	10694	11365	12354	13722	15085
Standard Length per Reel		m	300	300	300	300	300	300	250	250
Minimum Bending Radius		mm	1393	1460	1534	1595	1651	1728	1823	1917
Capacitance at 50 Hz		µF/km	0.104	0.116	0.128	0.138	0.148	0.159	0.175	0.190
Inductance at 50 Hz		mH/km	0.396	0.371	0.350	0.334	0.322	0.309	0.295	0.284
Max. Current Carrying Capacity	In Air at 30°C	A	159	196	238	274	309	354	415	472
	In Ground at 20°C	A	140	171	204	232	259	293	338	380
Short Circuit Current at 1 sec		kA	4.29	6.20	8.59	10.86	13.34	16.76	21.99	27.49
AC Voltage Test		kV/5 min	63	63	63	63	63	63	63	63

N2XSERH (CU/XLPE/CTS/SWA/LSZH) NA2XSERH (AL/XLPE/CTS/SWA/LSZH)

THREE - CORES CABLE

COPPER OR ALUMINIUM CONDUCTOR, XLPE INSULATED, COPPER TAPE SCREENED, STEEL WIRE ARMoured, LSZH SHEATHED

Specification:

BS 7835

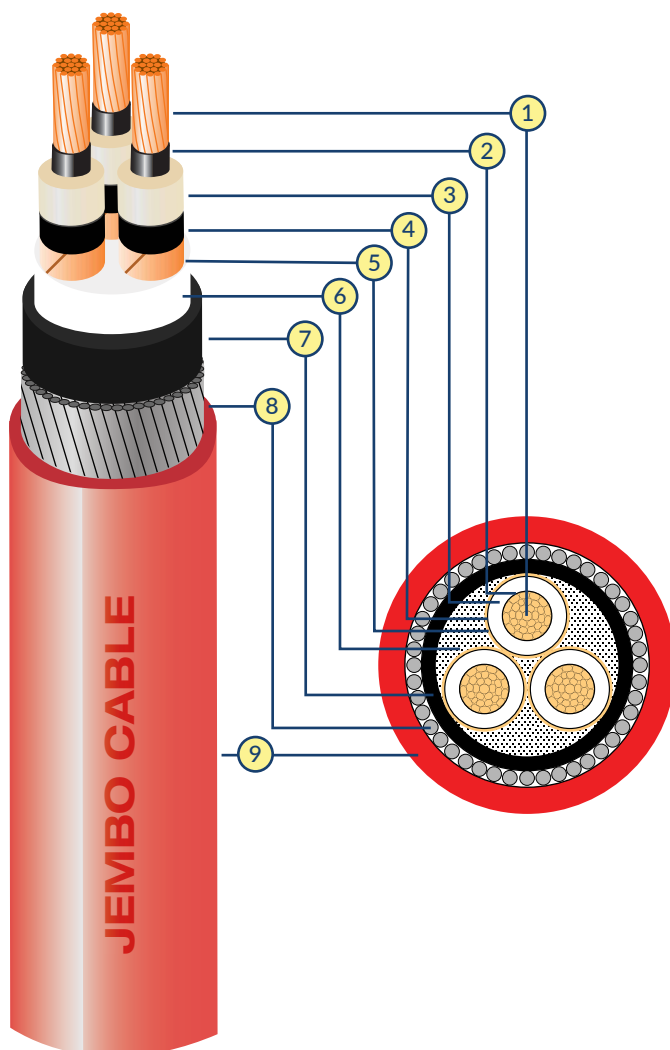
Application:

Suitable for Distribution Indoor and Outdoor Installation, direct burial or on Trays

Rated Voltage:

3.6/6 kV (7.2 kV)	12/20 kV (24 kV)
6/10 kV (12 kV)	18/30 kV (36 kV)
8.7/15 kV (17.5 kV)	

CONSTRUCTION



- | | |
|----------------------|---|
| 1. Conductor | : Copper or Aluminium (Compact Circular Stranded) |
| 2. Conductor Screen | : Extruded Semiconductive Compound |
| 3. Insulation | : Extruded Crosslinked Polyethylene (XLPE) |
| 4. Insulation Screen | : Extruded Strippable Semiconductive Compound |
| 5. Metallic Screen | : Helicaly Overlapped Copper Tape |
| 6. Filler | : Non Hygroscopic Material |
| 7. Inner Sheath | : Extruded Low Smoke Zero Halogen |
| 8. Armour | : Galvanized Steel Wire |
| 9. Outer Sheath | : Extruded Low Smoke Zero Halogen |

Identification of core by binder tape:
Brown, Black, Grey or by request

Special Features on Request:

- Oil Resistance
- Flame Retardant Category A,B,C
- Flame Retardant Non Category
- Nylon Coated

N2XSERH (CU/XLPE/CTS/SWA/LSZH)

NA2XSERH (AL/XLPE/CTS/SWA/LSZH)

Nominal Voltage : 3.6/6 kV
Maximum System Voltage : 7.2 kV
Specification : BS 7835
Other specifications are available on request

COPPER CONDUCTOR

Nominal Cross Sectional Area		mm ²	16	25	35	50	70	95	120	150	185	240	300	400
Conductor	Approx. Diameter	mm	4.6	5.8	6.9	8.0	9.6	11.3	12.7	14.1	15.8	18.1	20.3	22.9
	Max.DC Resistance at 20°C	Ohm/km	1.15	0.727	0.524	0.387	0.268	0.193	0.153	0.124	0.0991	0.0754	0.0601	0.0470
Insulation	Nominal Thickness	mm	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.6	2.8	3.0
	Min. Resistance at 20°C	M. Ohm.km	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
Sheath	Nominal Thickness	mm	2.2	2.3	2.3	2.5	2.6	2.7	2.8	2.9	3.0	3.2	3.5	3.8
Overall Diameter Approx.		mm	38.9	41.7	43.9	48.0	51.8	55.7	59.1	62.4	66.4	72.4	80.1	87.7
Cable Net. Weight Approx.		kg/km	2684	3171	3609	4585	5515	6591	7615	8671	10067	12264	15553	18843
Standard Length per Reel		m	1000	1000	1000	1000	500	500	500	500	300	300	300	300
Minimum Bending Radius		mm	700	751	790	864	932	1003	1064	1123	1195	1303	1442	1579
Capacitance at 50 Hz		µF/km	0.133	0.155	0.173	0.193	0.221	0.251	0.276	0.300	0.329	0.360	0.380	0.405
Inductance at 50 Hz		mH/km	0.344	0.317	0.299	0.282	0.265	0.251	0.242	0.234	0.227	0.220	0.216	0.212
Max. Current Carrying Capacity	In Air at 30°C	A	110	143	172	205	253	307	352	397	453	529	599	683
	In Ground at 20°C	A	101	129	154	181	220	263	298	332	374	431	482	541
Short Circuit Current at 1 sec		kA	2.16	3.41	4.73	6.41	9.25	12.85	16.21	20.00	25.03	32.89	41.27	52.77
AC Voltage Test		kV/5 min	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5

ALUMINIUM CONDUCTOR

Nominal Cross Sectional Area		mm ²	16	25	35	50	70	95	120	150	185	240	300	400
Conductor	Approx. Diameter	mm	4.6	5.8	6.8	7.9	9.6	11.2	12.7	14.0	15.7	18.0	20.1	22.8
	Max.DC Resistance at 20°C	Ohm/km	1.91	1.21	0.868	0.641	0.443	0.32	0.253	0.206	0.164	0.125	0.1	0.0778
Insulation	Nominal Thickness	mm	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.6	2.8	3.0
	Min. Resistance at 20°C	M. Ohm.km	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000
Sheath	Nominal Thickness	mm	2.2	2.3	2.3	2.5	2.6	2.7	2.8	2.9	3.0	3.2	3.5	3.8
Overall Diameter Approx.		mm	38.8	41.6	43.8	47.8	51.7	55.6	59.0	62.2	66.2	72.2	79.7	87.4
Cable Net. Weight Approx.		kg/km	2392	2712	2975	3722	4279	4876	5415	5995	6727	7874	9961	11739
Standard Length per Reel		m	1000	1000	1000	1000	500	500	500	500	300	300	300	300
Minimum Bending Radius		mm	698	749	788	860	931	1001	1062	1120	1192	1300	1435	1573
Capacitance at 50 Hz		µF/km	0.132	0.154	0.172	0.192	0.221	0.250	0.274	0.298	0.327	0.359	0.378	0.403
Inductance at 50 Hz		mH/km	0.345	0.318	0.300	0.283	0.266	0.252	0.242	0.235	0.227	0.220	0.217	0.212
Max. Current Carrying Capacity	In Air at 30°C	A	85	111	133	159	196	238	274	309	354	415	472	545
	In Ground at 20°C	A	78	100	119	140	171	204	232	259	293	338	380	432
Short Circuit Current at 1 sec		kA	1.44	2.27	3.17	4.29	6.20	8.59	10.86	13.34	16.76	21.99	27.49	35.33
AC Voltage Test		kV/5 min	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5

N2XSERH (CU/XLPE/CTS/SWA/LSZH)

NA2XSERH (AL/XLPE/CTS/SWA/LSZH)

Nominal Voltage : 6/10 kV
Maximum System Voltage : 12 kV
Specification : BS 7835
Other specifications are available on request

COPPER CONDUCTOR

Nominal Cross Sectional Area		mm ²	16	25	35	50	70	95	120	150	185	240	300	400
Conductor	Approx. Diameter	mm	4.6	5.8	6.9	8.0	9.6	11.3	12.7	14.1	15.8	18.1	20.3	22.9
	Max.DC Resistance at 20°C	Ohm/km	1.15	0.727	0.524	0.387	0.268	0.193	0.153	0.124	0.0991	0.0754	0.0601	0.0470
Insulation	Nominal Thickness	mm	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
	Min. Resistance at 20°C	M. Ohm.km	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000
Sheath	Nominal Thickness	mm	2.3	2.4	2.5	2.6	2.7	2.9	3.0	3.1	3.2	3.4	3.6	3.8
Overall Diameter Approx.		mm	43.0	47.0	49.4	52.2	55.9	60.2	63.6	66.9	70.9	77.8	83.1	89.4
Cable Net. Weight Approx.		kg/km	3066	3964	4482	5065	6001	7195	8203	9280	10705	13746	16053	19119
Standard Length per Reel		m	1000	1000	1000	500	500	500	500	500	300	300	300	300
Minimum Bending Radius		mm	774	846	889	940	1006	1084	1145	1204	1276	1400	1496	1609
Capacitance at 50 Hz		µF/km	0.116	0.134	0.149	0.166	0.189	0.213	0.233	0.253	0.276	0.308	0.339	0.375
Inductance at 50 Hz		mH/km	0.371	0.342	0.323	0.304	0.285	0.270	0.259	0.250	0.242	0.232	0.225	0.217
Max. Current Carrying Capacity	In Air at 30°C	A	110	143	172	205	253	307	352	397	453	529	599	683
	In Ground at 20°C	A	101	129	154	181	220	263	298	332	374	431	482	541
Short Circuit Current at 1 sec		kA	2.16	3.41	4.73	6.41	9.25	12.85	16.21	20.00	25.03	32.89	41.27	52.77
AC Voltage Test		kV/5 min	21	21	21	21	21	21	21	21	21	21	21	21

ALUMINIUM CONDUCTOR

Nominal Cross Sectional Area		mm ²	16	25	35	50	70	95	120	150	185	240	300	400
Conductor	Approx. Diameter	mm	4.6	5.8	6.8	7.9	9.6	11.2	12.7	14.0	15.7	18.0	20.1	22.8
	Max.DC Resistance at 20°C	Ohm/km	1.91	1.21	0.868	0.641	0.443	0.32	0.253	0.206	0.164	0.125	0.10	0.0778
Insulation	Nominal Thickness	mm	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
	Min. Resistance at 20°C	M. Ohm.km	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000
Sheath	Nominal Thickness	mm	2.3	2.4	2.5	2.6	2.7	2.9	3.0	3.1	3.2	3.4	3.6	3.8
Overall Diameter Approx.		mm	42.9	46.9	49.3	52.1	55.8	60.1	63.5	66.6	70.7	77.5	82.7	89.1
Cable Net. Weight Approx.		kg/km	2774	3503	3847	4207	4765	5438	6042	6596	7363	9283	10523	12078
Standard Length per Reel		m	1000	1000	1000	500	500	500	500	500	300	300	300	300
Minimum Bending Radius		mm	772	844	887	938	1004	1082	1143	1199	1273	1395	1489	1604
Capacitance at 50 Hz		µF/km	0.116	0.133	0.149	0.165	0.188	0.212	0.232	0.251	0.275	0.307	0.336	0.374
Inductance at 50 Hz		mH/km	0.373	0.343	0.323	0.305	0.286	0.270	0.259	0.251	0.242	0.233	0.225	0.217
Max. Current Carrying Capacity	In Air at 30°C	A	85	111	133	159	196	238	274	309	354	415	472	545
	In Ground at 20°C	A	78	100	119	140	171	204	232	259	293	338	380	432
Short Circuit Current at 1 sec		kA	1.44	2.27	3.17	4.29	6.20	8.59	10.86	13.34	16.76	21.99	27.49	35.33
AC Voltage Test		kV/5 min	21	21	21	21	21	21	21	21	21	21	21	21

N2XSERH (CU/XLPE/CTS/SWA/LSZH)

NA2XSERH (AL/XLPE/CTS/SWA/LSZH)

Nominal Voltage : 8.7/15 kV
 Maximum System Voltage : 17.5 kV
 Specification : BS 7835
 Other specifications are available on request

COPPER CONDUCTOR

Nominal Cross Sectional Area			mm ²	25	35	50	70	95	120	150	185	240	300	400
Conductor	Approx. Diameter	mm		5.8	6.9	8.0	9.6	11.3	12.7	14.1	15.8	18.1	20.3	22.9
	Max.DC Resistance at 20°C	Ohm/km		0.727	0.524	0.387	0.268	0.193	0.153	0.124	0.0991	0.0754	0.0601	0.047
Insulation	Nominal Thickness	mm		4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
	Min. Resistance at 20°C	M. Ohm/km		4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000
Sheath	Nominal Thickness	mm		2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.4	3.6	3.7	4.0
Overall Diameter Approx.			mm	52.3	54.8	57.6	61.3	65.4	68.8	72.0	77.5	83.1	88.2	94.8
Cable Net. Weight Approx.			kg/km	4608	5111	5758	6724	7882	8917	10051	12326	14644	16952	20122
Standard Length per Reel			m	1000	500	500	500	500	500	300	300	300	300	300
Minimum Bending Radius			mm	941	986	1037	1103	1177	1238	1296	1395	1496	1588	1706
Capacitance at 50 Hz			µF/km	0.117	0.130	0.143	0.162	0.182	0.198	0.214	0.234	0.260	0.284	0.314
Inductance at 50 Hz			mH/km	0.369	0.348	0.328	0.307	0.290	0.278	0.268	0.259	0.248	0.239	0.230
Max. Current Carrying Capacity	In Air at 30°C	A		143	172	205	253	307	352	397	453	529	599	683
	In Ground at 20°C	A		129	154	181	220	263	298	332	374	431	482	541
Short Circuit Current at 1 sec			kA	3.41	4.73	6.41	9.25	12.85	16.21	20.00	25.03	32.89	41.27	52.77
AC Voltage Test			kV/5 min	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5

ALUMINIUM CONDUCTOR

Nominal Cross Sectional Area			mm ²	25	35	50	70	95	120	150	185	240	300	400
Conductor	Approx. Diameter	mm		5.8	6.8	7.9	9.6	11.2	12.7	14.0	15.7	18.0	20.1	22.8
	Max.DC Resistance at 20°C	Ohm/km		1.21	0.868	0.641	0.443	0.32	0.253	0.206	0.164	0.125	0.1	0.0778
Insulation	Nominal Thickness	mm		4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
	Min. Resistance at 20°C	M. Ohm/km		4000	4000	4000	4000	4000	4000	4000	4000	4000	4000	4000
Sheath	Nominal Thickness	mm		2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.4	3.6	3.7	4.0
Overall Diameter Approx.			mm	52.2	54.7	57.5	61.2	65.2	68.7	71.8	77.4	82.9	87.9	94.5
Cable Net. Weight Approx.			kg/km	4106	4475	4900	5487	6158	6755	7333	8992	10252	11429	13079
Standard Length per Reel			m	1000	500	500	500	500	500	300	300	300	300	300
Minimum Bending Radius			mm	940	985	1035	1102	1174	1237	1292	1393	1492	1582	1701
Capacitance at 50 Hz			µF/km	0.117	0.129	0.143	0.162	0.181	0.198	0.213	0.233	0.259	0.283	0.313
Inductance at 50 Hz			mH/km	0.370	0.349	0.329	0.308	0.291	0.279	0.269	0.259	0.248	0.240	0.231
Max. Current Carrying Capacity	In Air at 30°C	A		111	133	159	196	238	274	309	354	415	472	545
	In Ground at 20°C	A		100	119	140	171	204	232	259	293	338	380	432
Short Circuit Current at 1 sec			kA	2.27	3.17	4.29	6.20	8.59	10.86	13.34	16.76	21.99	27.49	35.33
AC Voltage Test			kV/5 min	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5

N2XSERH (CU/XLPE/CTS/SWA/LSZH)

NA2XSERH (AL/XLPE/CTS/SWA/LSZH)

Nominal Voltage : 12/20 kV
 Maximum System Voltage : 24 kV
 Specification : BS 7835
 Other specifications are available on request

COPPER CONDUCTOR

Nominal Cross Sectional Area			mm ²	25	35	50	70	95	120	150	185	240	300	400
Conductor	Approx. Diameter	mm	5.8	6.9	8.0	9.6	11.3	12.7	14.1	15.8	18.1	20.3	22.9	
	Max.DC Resistance at 20°C	Ohm/km	0.727	0.524	0.387	0.268	0.193	0.153	0.124	0.0991	0.0754	0.0601	0.047	
Insulation	Nominal Thickness	mm	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	
	Min. Resistance at 20°C	M. Ohm/km	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	
Sheath	Nominal Thickness	mm	2.8	2.8	2.9	3.1	3.2	3.3	3.4	3.6	3.7	3.9	4.1	
Overall Diameter Approx.			mm	57.0	59.5	62.3	66.2	70.3	74.8	78.3	82.5	87.9	93.0	99.5
Cable Net. Weight Approx.			kg/km	5157	5715	6383	7405	8594	10398	11629	13184	15503	17850	20154
Standard Length per Reel			m	500	500	500	500	500	300	300	300	300	300	300
Minimum Bending Radius			mm	1026	1071	1121	1192	1265	1346	1409	1485	1582	1674	1791
Capacitance at 50 Hz			µF/km	0.107	0.118	0.129	0.146	0.163	0.177	0.190	0.207	0.229	0.250	0.276
Inductance at 50 Hz			mH/km	0.391	0.369	0.348	0.325	0.307	0.294	0.283	0.273	0.261	0.251	0.241
Max. Current Carrying Capacity	In Air at 30°C	A	143	172	205	253	307	352	397	453	529	599	683	
	In Ground at 20°C	A	129	154	181	220	263	298	332	374	431	482	541	
Short Circuit Current at 1 sec			kA	3.41	4.73	6.41	9.25	12.85	16.21	20.00	25.03	32.89	41.27	52.77
AC Voltage Test			kV/5 min	42	42	42	42	42	42	42	42	42	42	42

ALUMINIUM CONDUCTOR

Nominal Cross Sectional Area			mm ²	25	35	50	70	95	120	150	185	240	300	400
Conductor	Approx. Diameter	mm	5.8	6.8	7.9	9.6	11.2	12.7	14.0	15.7	18.0	20.1	22.8	
	Max.DC Resistance at 20°C	Ohm/km	1.21	0.868	0.641	0.443	0.32	0.253	0.206	0.164	0.125	0.1	0.0778	
Insulation	Nominal Thickness	mm	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	
	Min. Resistance at 20°C	M. Ohm/km	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	5000	
Sheath	Nominal Thickness	mm	2.8	2.8	2.9	3.1	3.2	3.3	3.4	3.6	3.7	3.9	4.1	
Overall Diameter Approx.			mm	56.9	59.4	62.2	66.1	70.1	74.7	78	82.3	87.6	92.6	99.2
Cable Net. Weight Approx.			kg/km	4695	5079	5523	6127	6869	8236	8940	9840	11100	12315	14009
Standard Length per Reel			m	500	500	500	500	500	300	300	300	300	300	300
Minimum Bending Radius			mm	1024	1069	1120	1190	1262	1345	1404	1481	1577	1667	1786
Capacitance at 50 Hz			µF/km	0.106	0.117	0.129	0.145	0.162	0.176	0.189	0.206	0.228	0.249	0.275
Inductance at 50 Hz			mH/km	0.392	0.370	0.348	0.326	0.307	0.294	0.284	0.273	0.261	0.252	0.242
Max. Current Carrying Capacity	In Air at 30°C	A	111	133	159	196	238	274	309	354	415	472	545	
	In Ground at 20°C	A	100	119	140	171	204	232	259	293	338	380	432	
Short Circuit Current at 1 sec			kA	2.27	3.17	4.29	6.20	8.59	10.86	13.34	16.76	21.99	27.49	35.33
AC Voltage Test			kV/5 min	42	42	42	42	42	42	42	42	42	42	42

N2XSERH (CU/XLPE/CTS/SWA/LSZH)

NA2XSERH (AL/XLPE/CTS/SWA/LSZH)

Nominal Voltage : 18/30 kV
 Maximum System Voltage : 36 kV
 Specification : BS 7835
 Other specifications are available on request

COPPER CONDUCTOR

Nominal Cross Sectional Area		mm ²	25	35	50	70	95	120	150	185	240	300
Conductor	Approx. Diameter	mm	5.8	6.9	8.0	9.6	11.3	12.7	14.1	15.8	18.1	20.3
	Max.DC Resistance at 20°C	Ohm/km	0.727	0.524	0.387	0.268	0.193	0.153	0.124	0.0991	0.0754	0.0601
Insulation	Nominal Thickness	mm	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
	Min. Resistance at 20°C	M. Ohm/km	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000
Sheath	Nominal Thickness	mm	3.2	3.2	3.4	3.5	3.6	3.7	3.8	4.0	4.1	4.3
Overall Diameter Approx.		mm	71	73.2	77.5	81.2	85.3	88.7	92.0	96.2	101.6	106.9
Cable Net. Weight Approx.		kg/km	7134	7665	9213	10312	11683	12888	14089	15800	18167	20669
Standard Length per Reel		m	300	300	300	300	300	300	300	300	250	250
Minimum Bending Radius		mm	1278	1318	1395	1462	1535	1597	1656	1732	1829	1924
Capacitance at 50 Hz		µF/km	0.087	0.096	0.104	0.116	0.128	0.138	0.148	0.160	0.176	0.191
Inductance at 50 Hz		mH/km	0.444	0.419	0.395	0.370	0.349	0.334	0.322	0.309	0.294	0.283
Max. Current Carrying Capacity	In Air at 30°C	A	143	172	205	253	307	352	397	453	529	599
	In Ground at 20°C	A	129	154	181	220	263	298	332	374	431	482
Short Circuit Current at 1 sec		kA	3.41	4.73	6.41	9.25	12.85	16.21	20.00	25.03	32.89	41.27
AC Voltage Test		kV/5min	63	63	63	63	63	63	63	63	63	63

ALUMINIUM CONDUCTOR

Nominal Cross Sectional Area		mm ²	25	35	50	70	95	120	150	185	240	300
Conductor	Approx. Diameter	mm	5.8	6.8	7.9	9.6	11.2	12.7	14.0	15.7	18.0	20.1
	Max.DC Resistance at 20°C	Ohm/km	1.21	0.868	0.641	0.443	0.32	0.253	0.206	0.164	0.125	0.10
Insulation	Nominal Thickness	mm	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
	Min. Resistance at 20°C	M. Ohm/km	6000	6000	6000	6000	6000	6000	6000	6000	6000	6000
Sheath	Nominal Thickness	mm	3.2	3.2	3.4	3.5	3.6	3.7	3.8	4.0	4.1	4.3
Overall Diameter Approx.		mm	70.9	73.1	77.4	81.1	85.2	88.6	91.7	96.0	101.3	106.5
Cable Net. Weight Approx.		kg/km	6630	7027	8351	9073	9963	10723	11395	12388	13758	15125
Standard Length per Reel		m	300	300	300	300	300	300	300	300	250	250
Minimum Bending Radius		mm	1276	1316	1393	1460	1534	1595	1651	1728	1823	1917
Capacitance at 50 Hz		µF/km	0.087	0.095	0.104	0.116	0.128	0.138	0.148	0.159	0.175	0.190
Inductance at 50 Hz		mH/km	0.445	0.420	0.396	0.371	0.350	0.334	0.322	0.309	0.295	0.284
Max. Current Carrying Capacity	In Air at 30°C	A	111	133	159	196	238	274	309	354	415	472
	In Ground at 20°C	A	100	119	140	171	204	232	259	293	338	380
Short Circuit Current at 1 sec		kA	2.27	3.17	4.29	6.20	8.59	10.86	13.34	16.76	21.99	27.49
AC Voltage Test		kV/5min	63	63	63	63	63	63	63	63	63	63

NFA2XSY-T

THREE – CORES OVERHEAD TWISTED CABLE

ALUMINIUM CONDUCTOR, XLPE INSULATED, COPPER WIRE & TAPE SCREENED, PVC SHEATHED WITH PVC COVERED STRANDED STEEL WIRE MESSENGER.

Specification:

SPLN 43-5-2

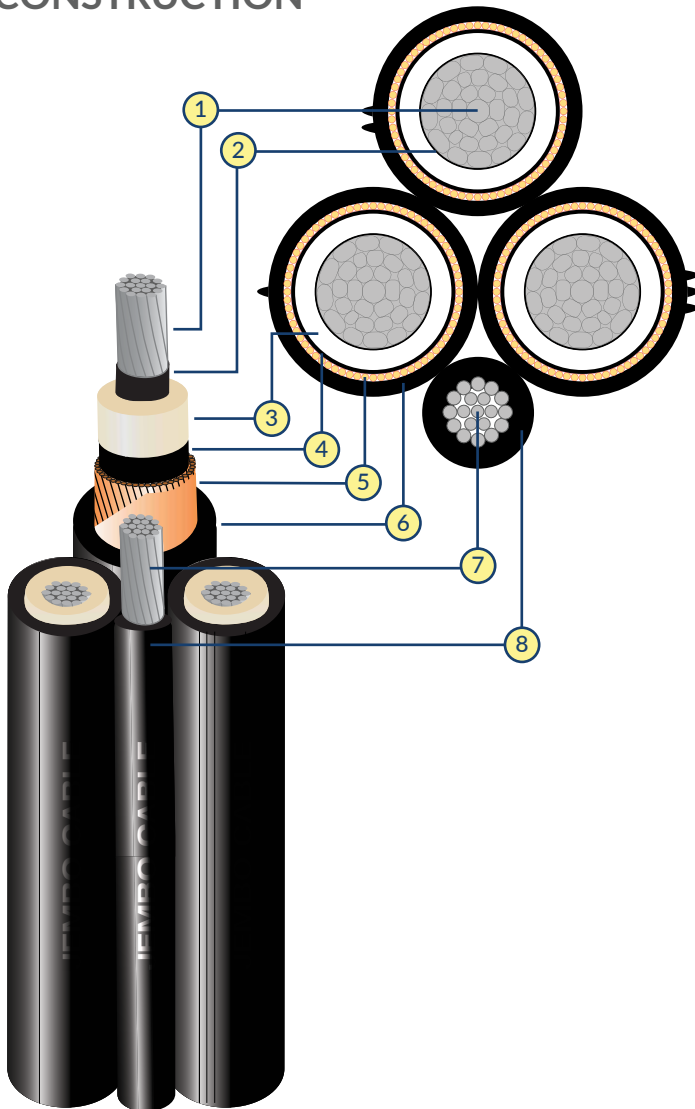
Application:

Suitable for Distribution Indoor and Outdoor Installation, in conduit, throughs or on Trays

Rated Voltage:

12/20 kV (24 kV)

CONSTRUCTION



- | | |
|----------------------|---|
| 1. Conductor | : Aluminium
(Compact Circular Stranded) |
| 2. Conductor Screen | : Extruded Semiconductive Compound |
| 3. Insulation | : Extruded Crosslinked Polyethylene (XLPE) |
| 4. Insulation Screen | : Extruded Strippable Semiconductive Compound |
| 5. Metallic Screen | : Copper Wire & Tape Screen |
| 6. Sheath | : Extruded PVC |
| 7. Messenger | : Stranded Steel Wire |
| 8. Sheath | : Extruded PVC |

Special Features on Request:

- Oil Resistance
- Flame Retardant Category A,B,C
- Flame Retardant Non Category
- Nylon Coated
- Low Smoke Zero Halogen

NFA2XSY-T

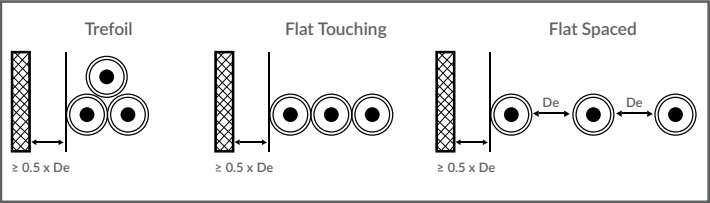
Nominal Voltage : 12/20 kV
 Maximum System Voltage : 24 kV
 Specification : SPLN 43-5-2
 Other specifications are available on request

Nominal Cross of Sectional Area	PHASE	mm ²	50		70		95		120	
	MESSENGER	mm ²	50	95	50	95	50	95	50	95
PHASE	Approx. Conductor Diameter	mm	8.0		9.6		11.2		12.7	
	Max.DC Conductor Resistance at 20°C	Ohm/km	0.641		0.443		0.32		0.253	
	Nominal Insulation Thickness	mm	5.5		5.5		5.5		5.5	
	Min.DC Conductor Resistance at 20°C	M. Ohm.km	5000		5000		5000		5000	
	Nominal Sheath Thickness	mm	2.5		2.5		2.5		2.5	
	Outer Diameter	mm	28.3		29.9		31.6		33.0	
MESSENGER	PVC Insulation Thickness	mm	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
	Outer Diameter	mm	11.6	15.2	11.6	15.2	11.6	15.2	11.6	15.2
Overall Diameter Approx.		mm	61.1	61.1	64.6	64.6	68.2	68.2	71.2	71.2
Cable Net. Weight Approx.		kg/km	3112	3510	3436	3834	3804	4202	4137	4536
Standard Length per Reel		m	500	300	500	300	500	300	500	300
Minimum Bending Radius		mm	1100	1100	1163	1163	1227	1227	1282	1282
Capacitance at 50 Hz		µF/km	0.157		0.177		0.197		0.214	
Inductance at 50 Hz		mH/km	0.163		0.144		0.129		0.119	
Max. Current Carrying Capacity in Air at 30°C		A	165		204		247		287	
Short Circuit Current at 1 sec.		kA	4.29		6.20		8.59		10.86	
AC Voltage Test		kV/5min	30		30		30		30	
Calculated Breaking Force of Steel Messenger		kN	64.7		64.7		64.7		64.7	

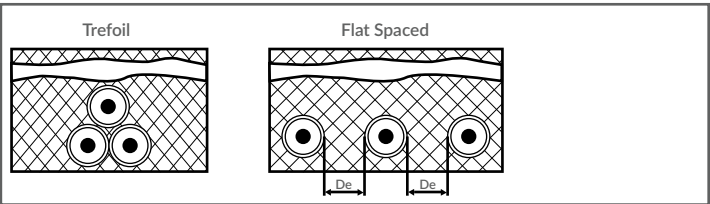
Nominal Cross of Sectional Area	PHASE	mm ²	150		185		240		300	
	MESSENGER	mm ²	50	95	50	95	50	95	50	95
PHASE	Approx. Conductor Diameter	mm	14.0		15.7		18.0		20.1	
	Max.DC Conductor Resistance at 20°C	Ohm/km	0.206		0.164		0.125		0.10	
	Nominal Insulation Thickness	mm	5.5		5.5		5.5		5.5	
	Min.DC Conductor Resistance at 20°C	M. Ohm.km	5000		5000		5000		5000	
	Nominal Sheath Thickness	mm	2.5		2.5		2.5		2.5	
	Outer Diameter	mm	34.3		36.1		38.3		40.5	
MESSENGER	PVC Insulation Thickness	mm	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
	Outer Diameter	mm	11.6	15.2	11.6	15.2	11.6	15.2	11.6	15.2
Overall Diameter Approx.		mm	74.2	74.2	77.9	77.9	82.8	82.8	87.4	87.4
Cable Net. Weight Approx.		kg/km	4725	5124	5188	5586	5858	6257	6540	6938
Standard Length per Reel		m	300	300	300	300	300	300	300	300
Minimum Bending Radius		mm	1335	1335	1402	1402	1490	1490	1573	1573
Capacitance at 50 Hz		µF/km	0.229		0.249		0.276		0.300	
Inductance at 50 Hz		mH/km	0.112		0.103		0.093		0.085	
Max. Current Carrying Capacity in Air at 30°C		A	326		373		435		481	
Short Circuit Current at 1 sec.		kA	13.33		16.76		21.99		27.49	
AC Voltage Test		kV/5min	30		30		30		30	
Calculated Breaking Force of Steel Messenger		kN	64.7		64.7		64.7		64.7	

METHODS OF INSTALLATION

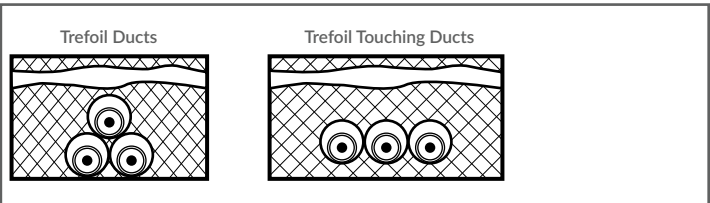
1. SINGLE-CORE CABLES IN AIR



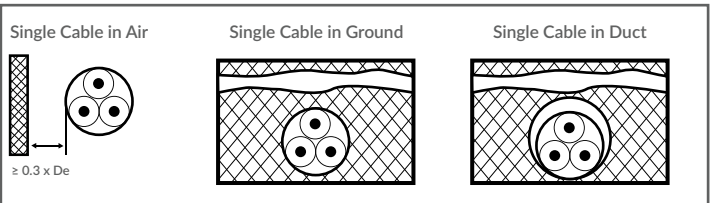
2. SINGLE-CORE CABLES BURIED DIRECT IN GROUND



3. SINGLE-CORE CABLES IN EARTHENWARE DUCTS IN GROUND



4. THREE-CORE CABLES



5. INSTALLATION CONDITION

Conductor Temperature	90°C (XLPE Insulation)
Ambient Temperature: In Air	30°C
In Ground:	20°C
- Depth of Laying	0.8 m
- Thermal Resistivity of Soil	1.5 K.m/W
- Thermal Resistivity of Earthenware Ducts	1.2 K.m/W

METHODS OF INSTALLATION

Table 1. Current ratings for single-core cable with XLPE insulation
rated voltage 3.6/6 kV to 18/30 kV - **copper conductor**

Nominal Area of Conductor	Buried Direct in the Ground		In Single-way Ducts		In Air		
	Trefoil	Flat Spaced	Trefoil Ducts	Flat Touching Ducts	Trefoil	Flat Touching	Flat Spaced
16	109	113	103	104	125	128	150
25	140	144	132	133	163	167	196
35	166	172	157	159	198	203	238
50	196	203	186	188	238	243	286
70	239	246	227	229	296	303	356
95	285	293	271	274	361	369	434
120	323	332	308	311	417	426	500
150	361	366	343	347	473	481	559
185	406	410	387	391	543	550	637
240	469	470	447	453	641	647	745
300	526	524	504	510	735	739	846
400	590	572	564	571	845	837	938

Table 2. Current ratings for single-core cable with XLPE insulation
rated voltage 3.6/6 kV to 18/30 kV - **aluminium conductor**

Nominal Area of Conductor	Buried Direct in the Ground		In Single-way Ducts		In Air		
	Trefoil	Flat Spaced	Trefoil Ducts	Flat Touching Ducts	Trefoil	Flat Touching	Flat Spaced
16	84	88	80	81	97	99	116
25	108	112	102	103	127	130	153
35	129	134	122	123	154	157	185
50	152	157	144	146	184	189	222
70	186	192	176	178	230	236	278
95	221	229	210	213	280	287	338
120	252	260	240	242	324	332	391
150	281	288	267	271	368	376	440
185	317	324	303	307	424	432	504
240	367	373	351	356	502	511	593
300	414	419	397	402	577	586	677
400	470	466	451	457	673	676	769

Table 3. Current ratings for three-core cable with XLPE insulation rated voltage 3.6/6 kV to 18/30 kV - **copper conductor armoured and un armoured**

Nominal Area of Conductor	Un Armoured			Armoured		
	Buried Direct in Ground	In a Buried Duct	In Air	Buried Direct in Ground	In a Buried Duct	In Air
16	101	87	109	101	88	110
25	129	112	142	129	112	143
35	153	133	170	154	134	172
50	181	158	204	181	158	205
70	221	193	253	220	194	253
95	262	231	304	263	232	307
120	298	264	351	298	264	352
150	334	297	398	332	296	397
185	377	336	455	374	335	453
240	434	390	531	431	387	529
300	489	441	606	482	435	599
400	553	501	696	541	492	683

Table 4. Current ratings for three-core cable with XLPE insulation rated voltage 3.6/6 kV to 18/30 kV - **aluminium conductor armoured and un armoured**

Nominal Area of Conductor	Un Armoured			Armoured		
	Buried Direct in Ground	In a Buried Duct	In Air	Buried Direct in Ground	In a Buried Duct	In Air
16	78	67	84	78	68	85
25	100	87	110	100	87	111
35	119	103	132	119	104	133
50	140	122	158	140	123	159
70	171	150	196	171	150	196
95	203	179	236	204	180	238
120	232	205	273	232	206	274
150	260	231	309	259	231	309
185	294	262	355	293	262	354
240	340	305	415	338	304	415
300	384	346	475	380	343	472
400	438	398	552	432	393	545

DERATING FACTOR

CORRECTION FACTOR AND GROUPING IN THE GROUND

Table 1. Correction factors for ambient ground temperatures other than 20°C

Max. Conductor Temperature (°C)	Ambient Ground Temperature °C							
	10	15	25	30	35	40	45	50
90	1.07	1.04	0.96	0.93	0.89	0.85	0.80	0.76

Table 2. Correction factors for depths of laying other than 0.8m for **direct buried cables**

Depth of Laying (m)	Single Core Cable		Three-core Cable
	Nom. Conductor Size (mm²)		
	≤ 185 mm²	> 185 mm²	
0.5	1.04	1.06	1.04
0.6	1.02	1.04	1.03
1	0.98	0.97	0.98
1.25	0.96	0.95	0.96
1.5	0.95	0.93	0.95
1.75	0.94	0.91	0.94
2	0.93	0.90	0.93
2.5	0.91	0.89	0.91
3	0.90	0.86	0.90

Table 3. Correction factors for depths of laying other than 0.8m for **cables in ducts**

Depth of Laying (m)	Single Core Cable		Three-core Cable
	Nom. Conductor Size (mm²)		
	≤ 185 mm²	> 185 mm²	
0.5	1.04	1.05	1.03
0.6	1.02	1.03	1.02
1	0.98	0.97	0.99
1.25	0.96	0.95	0.97
1.5	0.95	0.93	0.96
1.75	0.94	0.92	0.95
2	0.93	0.91	0.94
2.5	0.91	0.89	0.93
3	0.90	0.88	0.92

Table 4. Correction factors for soil thermal resistivities other than 1.5 K.m/W for **direct buried single-core cables**

Nominal Area of Conductor (mm ²)	Values of Soil Thermal Resistivity K.m/W						
	0.7	0.8	0.9	1	2	2.5	3
16	1.29	1.24	1.19	1.15	0.89	0.82	0.75
25	1.30	1.25	1.20	1.16	0.89	0.81	0.75
35	1.30	1.25	1.21	1.16	0.89	0.81	0.75
50	1.32	1.26	1.21	1.16	0.89	0.81	0.74
70	1.33	1.27	1.22	1.17	0.89	0.81	0.74
95	1.34	1.28	1.22	1.18	0.89	0.80	0.74
120	1.34	1.28	1.22	1.18	0.88	0.80	0.74
150	1.35	1.28	1.23	1.18	0.88	0.80	0.74
185	1.35	1.29	1.23	1.18	0.88	0.80	0.74
240	1.36	1.29	1.23	1.18	0.88	0.80	0.73
300	1.36	1.30	1.24	1.19	0.88	0.80	0.73
400	1.37	1.30	1.24	1.19	0.88	0.79	0.73

Table 5. Correction factors for soil thermal resistivities other than 1.5 K.m/W for **single-core cables in buried ducts**

Nominal Area of Conductor (mm ²)	Values of Soil Thermal Resistivity K.m/W						
	0.7	0.8	0.9	1	2	2.5	3
16	1.20	1.17	1.14	1.11	0.92	0.85	0.79
25	1.21	1.17	1.14	1.12	0.91	0.85	0.79
35	1.21	1.18	1.15	1.12	0.91	0.84	0.79
50	1.21	1.18	1.15	1.12	0.91	0.84	0.78
70	1.22	1.19	1.15	1.12	0.91	0.84	0.78
95	1.23	1.19	1.16	1.13	0.91	0.84	0.78
120	1.23	1.20	1.16	1.13	0.91	0.84	0.78
150	1.24	1.20	1.16	1.13	0.91	0.84	0.78
185	1.24	1.20	1.17	1.13	0.91	0.83	0.78
240	1.25	1.21	1.17	1.14	0.90	0.83	0.77
300	1.25	1.21	1.17	1.14	0.90	0.83	0.77
400	1.25	1.21	1.17	1.14	0.90	0.83	0.77

Table 6. Correction factors for soil thermal resistivities other than 1.5 K.m/W for **direct buried three-core cables**

Nominal Area of Conductor (mm ²)	Values of Soil Thermal Resistivity K.m/W						
	0.7	0.8	0.9	1	2	2.5	3
16	1.23	1.19	1.16	1.13	0.91	0.84	0.78
25	1.24	1.20	1.16	1.13	0.91	0.84	0.78
35	1.25	1.21	1.17	1.13	0.91	0.83	0.78
50	1.25	1.21	1.17	1.14	0.91	0.83	0.77
70	1.26	1.21	1.18	1.14	0.90	0.83	0.77
95	1.26	1.22	1.18	1.14	0.90	0.83	0.77
120	1.26	1.22	1.18	1.14	0.90	0.83	0.77
150	1.27	1.22	1.18	1.15	0.90	0.83	0.77
185	1.27	1.23	1.18	1.15	0.90	0.83	0.77
240	1.28	1.23	1.19	1.15	0.90	0.83	0.77
300	1.28	1.23	1.19	1.15	0.90	0.82	0.77
400	1.28	1.23	1.19	1.15	0.90	0.82	0.76

Table 7. Correction factors for soil thermal resistivities other than 1.5 K.m/W for **three-core cables in ducts**

Nominal Area of Conductor (mm ²)	Values of Soil Thermal Resistivity K.m/W						
	0.7	0.8	0.9	1	2	2.5	3
16	1.12	1.11	1.09	1.08	0.94	0.89	0.84
25	1.14	1.12	1.10	1.08	0.94	0.89	0.84
35	1.14	1.12	1.10	1.08	0.94	0.88	0.84
50	1.14	1.12	1.10	1.08	0.94	0.88	0.84
70	1.15	1.13	1.11	1.09	0.94	0.88	0.83
95	1.15	1.13	1.11	1.09	0.94	0.88	0.83
120	1.15	1.13	1.11	1.09	0.93	0.88	0.83
150	1.16	1.13	1.11	1.09	0.93	0.88	0.83
185	1.16	1.14	1.11	1.09	0.93	0.87	0.83
240	1.16	1.14	1.12	1.10	0.93	0.87	0.82
300	1.17	1.14	1.12	1.10	0.93	0.87	0.82
400	1.17	1.14	1.12	1.10	0.92	0.86	0.81

Table 8. Correction factors for groups of three-core cables in horizontal formation laid direct in the ground

Number of cables in group	Spacing between Cable Centres (mm)				
	Touching	200	400	600	800
2	0.80	0.86	0.90	0.92	0.94
3	0.69	0.77	0.82	0.86	0.89
4	0.62	0.72	0.79	0.83	0.87
5	0.57	0.68	0.76	0.81	0.85
6	0.54	0.65	0.74	0.80	0.84
7	0.51	0.63	0.72	0.78	0.83
8	0.49	0.61	0.71	0.78	-
9	0.47	0.60	0.70	0.77	-
10	0.46	0.59	0.69	-	-
11	0.45	0.57	0.69	-	-
12	0.43	0.56	0.68	-	-

Table 9. Correction factors for groups of three-phase circuits of single-core cables laid direct in the ground

Number of cables in group	Spacing between Cable Centres (mm)				
	Touching	200	400	600	800
2	0.73	0.83	0.88	0.90	0.92
3	0.60	0.73	0.79	0.83	0.86
4	0.54	0.68	0.75	0.80	0.84
5	0.49	0.63	0.72	0.78	0.82
6	0.46	0.61	0.70	0.76	0.81
7	0.43	0.58	0.68	0.75	0.80
8	0.41	0.57	0.67	0.74	-
9	0.39	0.55	0.66	0.73	-
10	0.37	0.54	0.65	-	-
11	0.36	0.53	0.64	-	-
12	0.35	0.52	0.64	-	-

Table 10. Correction factors for groups of three-core cables of single way ducts in horizontal formation

Number of cables in group	Spacing between Cable Centres (mm)				
	Touching	200	400	600	800
2	0.85	0.88	0.92	0.94	0.95
3	0.75	0.80	0.85	0.88	0.91
4	0.69	0.75	0.82	0.86	0.89
5	0.65	0.72	0.79	0.84	0.87
6	0.62	0.69	0.77	0.83	0.87
7	0.59	0.67	0.76	0.82	0.86
8	0.57	0.65	0.75	0.81	-
9	0.55	0.64	0.74	0.80	-
10	0.54	0.63	0.73	-	-
11	0.52	0.62	0.73	-	-
12	0.51	0.61	0.72	-	-

Table 11. Correction factors for groups of three-phase circuits of single-core cables in single way ducts

Number of cables in group	Spacing between Cable Centres (mm)				
	Touching	200	400	600	800
2	0.78	0.85	0.89	0.91	0.93
3	0.66	0.75	0.81	0.85	0.88
4	0.59	0.70	0.77	0.82	0.86
5	0.55	0.66	0.74	0.80	0.84
6	0.51	0.64	0.72	0.78	0.83
7	0.48	0.61	0.71	0.77	0.82
8	0.46	0.60	0.70	0.76	-
9	0.44	0.58	0.69	0.76	-
10	0.43	0.57	0.68	-	-
11	0.42	0.56	0.67	-	-
12	0.40	0.55	0.67	-	-

DERATING FACTOR

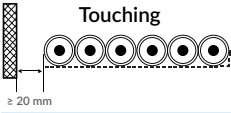
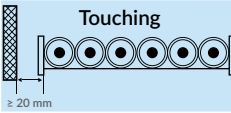
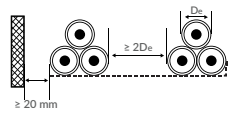
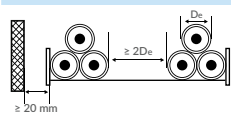
CORRECTION FACTOR AND GROUPING IN AIR

Table 1. Correction factors for ambient air temperatures other than 30°C

Max. Conductor Temperature (°C)	Ambient Air Temperature °C							
	20	25	35	40	45	50	55	60
90	1.08	1.04	0.96	0.91	0.87	0.82	0.76	0.71

Table 2. Reduction factors for groups of more than one circuit of single-core cables (note 2)

(To be applied to the current-carrying capacity for one circuit of single-core cables in free air)

Methods of Installation		Number of Trays	Number of Three-phase Circuits (Note 5)			Use as a Multiplier to Rating for
			1	2	3	
Perforated Trays (Note 3)		1	0.98	0.91	0.87	Three Cables in Horizontal Formation
		2	0.96	0.87	0.81	
		3	0.95	0.85	0.78	
Ladder Supports, Cleats etc. (Note 3)		1	1.00	0.97	0.96	Three Cables in Horizontal Formation
		2	0.98	0.93	0.89	
		3	0.97	0.90	0.86	
Perforated Trays (Note 3)		1	1.00	0.98	0.96	Three Cables in Trefoil Formation
		2	0.97	0.93	0.89	
		3	0.96	0.92	0.86	
Vertical Perforated Trays (Note 4)		1	1.00	0.91	0.89	Three Cables in Trefoil Formation
		2	1.00	0.90	0.86	
Ladder Supports, Cleats etc. (Note 3)		1	1.00	1.00	1.00	
		2	0.97	0.95	0.93	
		3	0.96	0.94	0.90	

NOTE 1. Values given are averages for the cable types and range of conductor sizes considered. The spread of values is generally less than 5%

NOTE 2. Factors are given for single layers of cables (or trefoil groups) as shown in the table and do not apply when cables are installed in more than one layer touching each other. Values for such installations may be significantly lower and should be determined by an appropriate method

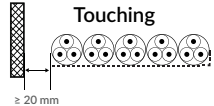
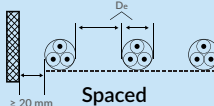
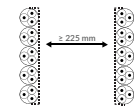
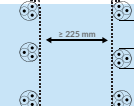
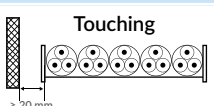
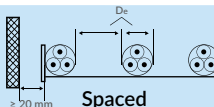
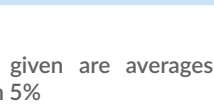
NOTE 3. Values are given for vertical spacings between trays of 300 mm. For closer spacing, the factors should be reduced

NOTE 4. Values are given for horizontal spacing between trays of 225 mm with trays mounted back to back. For closer spacing, the factors should be reduced

NOTE 5. For circuits having more than one cable in parallel per phase, each three phase set of conductors should be considered as a circuit for the purpose of this table

Table 3. Reduction factors for groups of more than one multi-core cable in air

(To be applied to the current-carrying capacity for one multi-core cables in free air)

Methods of Installation		Number of Trays	Number of Cables					
			1	2	3	4	6	9
Cables on Perforated Trays	 Touching	1	1.00	0.88	0.82	0.79	0.76	0.73
		2	1.00	0.87	0.80	0.77	0.73	0.68
		3	1.00	0.86	0.79	0.76	0.71	0.66
	 Spaced	1	1.00	1.00	0.98	0.95	0.91	-
		2	1.00	0.99	0.96	0.92	0.87	-
		3	1.00	0.98	0.95	0.91	0.85	-
Cables on Vertical Perforated Trays	 Touching	1	1.00	0.88	0.82	0.78	0.73	0.72
		2	1.00	0.88	0.81	0.76	0.71	0.70
	 Spaced	1	1.00	0.91	0.89	0.88	0.87	-
		2	1.00	0.91	0.88	0.87	0.85	-
	 Touching	1	1.00	0.87	0.82	0.80	0.79	0.78
		2	1.00	0.86	0.80	0.78	0.76	0.73
Cables on Ladder Supports, Cleats, etc	 Touching	3	1.00	0.85	0.79	0.76	0.73	0.70
		1	1.00	1.00	1.00	1.00	1.00	-
		2	1.00	0.99	0.98	0.97	0.96	-
	 Spaced	3	1.00	0.98	0.97	0.96	0.93	-
		1	1.00	1.00	1.00	1.00	1.00	-
		2	1.00	0.99	0.98	0.97	0.96	-

NOTE 1. Values given are averages for the cable types and range of conductor sizes considered. The spread of values is generally less than 5%

NOTE 2. Factors apply to single layer groups of cables as shown above and do not apply when cables are installed in more than one layer touching each other. Values for such installations may be significantly lower and must be determined by an appropriate method

NOTE 3. Values are given for vertical spacings between trays of 300 mm and at least 20 mm between trays and wall. For closer spacing, the factors should be reduced

NOTE 4. Values are given for horizontal spacing between trays of 225 mm with trays mounted back to back. For closer spacing, the factors should be reduced



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Sep 22, I