

THREE - CORES CABLE

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

Type :

N2XSEY - Single Jacket
NA2XSEY - Single Jacket

Nominal Voltage

(max system voltage) :

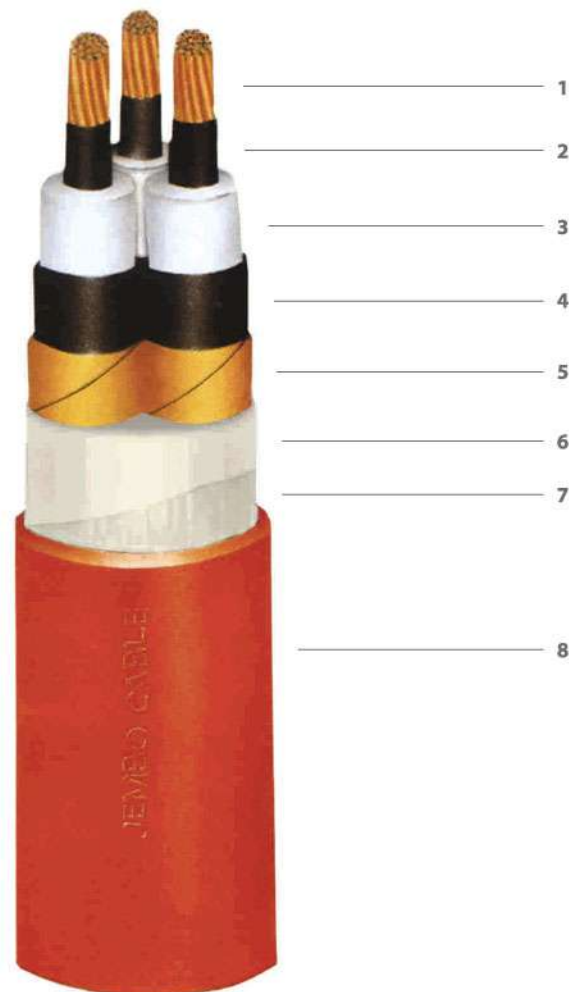
3.5/6 kV (7.2 kV)
6/10 kV (12 kV)
8.7/15 kV (17.5 kV)
12/20 kV (24 kV)
18/30 kV (36 kV)

Application :

Suitable for Distribution indoor and outdoor Installation, in conduit, troughs or on Trays or for laying in the ground where not sustain mechanical damage.

Specification :

IEC 60502-2 : 2005



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 | : PP Yarm |
| 7. Binding Tape | : Helicaly Overlapped Polyester Tape |
| 8. Outer Sheath | : PVC 90°C Grade |

N2XSEY & NA2XSEY SINGLE JACKET

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

Nominal Voltage : 3.6/6 kV
Maximum System Voltage : 7.2 kV
Specification : IEC 60502-2 : 2005
Other specifications are available on request

N2XSEY - COPPER CONDUCTOR

3 CORES

Nominal cross sectional area		mm ²	10	16	25	35	50	70	95	120	150	185	240	300	400
Conductor	Approx. diameter	mm	3.7	4.6	5.8	6.9	8.0	9.6	11.3	12.7	14.1	15.8	18.1	20.3	23.2
	Max. DC resistance at 20°C	Ohm/km	1.830	1.150	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	2.5	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. DC resistance at 20°C	m.ohm.km	3700	3200	2800	2500	2200	1900	1700	1500	1400	1300	1200	1200	1100
Nominal sheath thickness		mm	1.9	1.9	2.0	2.1	2.2	2.3	2.5	2.6	2.7	2.8	3.0	3.2	3.4
Overall diameter	approx.	mm	29.0	31.0	33.8	36.3	38.9	42.6	46.7	49.9	53.1	56.9	62.8	68.7	76.3
Cable Net. Weight	approx.	kg/km	978	1211	1569	1929	2369	3083	3981	4787	5684	6851	8711	10718	13449
Standard length per reel		m	1000	1000	1000	1000	1000	1000	1000	1000	500	500	500	300	300
Minimum bending radius		mm	348	372	406	436	467	511	560	599	637	683	754	824	916
Capacitance		µF/km	0.172	0.195	0.225	0.253	0.280	0.320	0.362	0.397	0.432	0.474	0.513	0.531	0.560
Inductance		mH/km	0.149	0.131	0.114	0.101	0.091	0.080	0.071	0.064	0.059	0.054	0.050	0.048	0.046
Current carrying capacity at 30°C	in air	A	89	103	134	175	207	258	315	362	413	473	557	663	765
	in ground	A	87	102	133	172	203	247	297	337	379	428	497	557	629
Short circuit current at 1 sec.		kA	1.4	2.3	3.6	5.0	7.1	9.9	13.5	17.0	21.3	26.3	34.1	42.6	56.8
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

NA2XSEY - ALUMINIUM CONDUCTOR

3 CORES

Nominal cross sectional area		mm ²	10	16	25	35	50	70	95	120	150	185	240	300	400
Conductor	Approx. diameter	mm	3.6	4.6	5.8	6.8	7.9	9.6	11.3	12.7	14.0	15.7	18.0	20.1	22.9
	Max. DC resistance at 20°C	Ohm/km	3.08	1.91	1.20	0.868	0.641	0.443	0.320	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	2.5	2.6	2.8	3.0
	Min. DC resistance at 20°C	m.ohm.km	3700	3200	2800	2500	2200	1900	1700	1500	1400	1300	1200	1200	1100
Nominal sheath thickness		mm	1.9	1.9	2.0	2.1	2.2	2.3	2.4	2.6	2.7	2.8	3.0	3.2	3.4
Overall diameter	approx.	mm	28.9	31.0	33.7	36.2	38.8	42.5	46.3	49.9	52.9	56.8	62.5	68.4	75.7
Cable Net. Weight	approx.	kg/km	792	920	1107	1293	1509	1844	2233	2622	2997	3499	4301	5172	6362
Standard length per reel		m	1000	1000	1000	1000	1000	1000	1000	1000	1000	500	500	500	300
Minimum bending radius		mm	347	372	404	434	466	510	556	599	635	682	750	821	908
Capacitance		µF/km	0.169	0.195	0.225	0.250	0.278	0.320	0.362	0.397	0.429	0.471	0.511	0.526	0.554
Inductance		mH/km	0.151	0.131	0.114	0.102	0.092	0.080	0.071	0.064	0.060	0.054	0.050	0.049	0.046
Current carrying capacity at 30°C	in air	A	72	82	103	133	160	200	241	280	317	363	424	484	597
	in ground	A	70	80	102	131	156	192	230	261	294	333	388	416	498
Short circuit current at 1 sec.		kA	0.9	1.5	2.3	3.2	4.6	6.4	8.7	11.0	13.8	17.0	22.1	27.6	36.8
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

N2XSEY & NA2XSEY SINGLE JACKET

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

Nominal Voltage : 6/10 kV
Maximum System Voltage : 12 kV
Specification : IEC 60502-2 : 2005
Other specifications are available on request

N2XSEY - COPPER CONDUCTOR

3 CORES

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	23.2
	Max. DC resistance at 20°C	Ohm/km	1.150	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	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. DC resistance at 20°C	m.ohm.km	4000	3500	3100	2800	2500	2200	2000	1900	1700	1500	1400	1200
Nominal sheath thickness		mm	2.1	2.2	2.3	2.3	2.5	2.6	2.7	2.8	2.9	3.1	3.3	3.5
Overall diameter	approx.	mm	35.3	38.1	40.6	43.0	46.9	50.8	54.0	57.2	61.0	66.4	71.5	78.2
Cable Net. Weight	approx.	kg/km	1441	1816	2191	2627	3385	4284	5109	6024	7213	9065	11013	13677
Standard length per reel		m	1000	1000	1000	1000	1000	1000	500	500	300	300	300	250
Minimum bending radius		mm	424	457	487	516	563	610	648	686	732	797	858	938
Capacitance		µF/km	0.158	0.181	0.201	0.222	0.252	0.284	0.310	0.335	0.367	0.409	0.450	0.503
Inductance		mH/km	0.162	0.142	0.127	0.115	0.101	0.090	0.083	0.076	0.070	0.062	0.057	0.051
Current carrying capacity at 30°C	in air	A	108	134	173	206	257	313	360	410	469	553	629	686
	in ground		104	134	169	200	243	292	332	372	421	487	533	595
Short circuit current at 1 sec.		kA	2.3	3.6	5.0	7.1	9.9	13.5	17.0	21.3	26.3	34.1	42.6	56.8
AC voltage test		kV/5 min	21	21	21	21	21	21	21	21	21	21	21	21

NA2XSEY - ALUMINIUM CONDUCTOR

3 CORES

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	11.3	12.7	14.0	15.7	18.0	20.1	22.9
	Max. DC resistance at 20°C	Ohm/km	1.91	1.20	0.868	0.641	0.443	0.320	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. DC resistance at 20°C	m.ohm.km	4000	3500	3200	2900	2500	2200	2000	1900	1700	1500	1400	1200
Nominal sheath thickness		mm	2.1	2.2	2.2	2.3	2.5	2.6	2.7	2.8	2.9	3.1	3.3	3.5
Overall diameter	approx.	mm	35.3	37.9	40.3	42.9	46.8	50.6	54.0	57.0	60.9	66.2	71.2	77.6
Cable Net. Weight	approx.	kg/km	1149	1353	1536	1766	2145	2558	2944	3336	3860	4653	5466	6589
Standard length per reel		m	1000	1000	1000	1000	1000	1000	1000	500	500	500	300	300
Minimum bending radius		mm	424	455	484	515	562	607	648	684	731	794	854	931
Capacitance		µF/km	0.158	0.181	0.199	0.220	0.252	0.284	0.310	0.334	0.365	0.407	0.446	0.497
Inductance		mH/km	0.162	0.142	0.128	0.116	0.101	0.090	0.083	0.077	0.070	0.063	0.057	0.051
Current carrying capacity at 30°C	in air	A	108	123	139	160	199	242	280	318	365	431	481	545
	in ground		103	122	137	153	189	226	257	288	327	381	420	493
Short circuit current at 1 sec.		kA	1.5	2.3	3.2	4.6	6.4	8.7	11.0	13.8	17.0	22.1	27.6	36.8
AC voltage test		kV/5 min	21	21	21	21	21	21	21	21	21	21	21	21

N2XSEY & NA2XSEY SINGLE JACKET

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

Nominal Voltage : 8.7/15 kV
Maximum System Voltage : 17.5 kV
Specification : IEC 60502-2 : 2005
Other specifications are available on request

N2XSEY - COPPER CONDUCTOR

3 CORES

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	23.2
	Max. DC resistance at 20°C	Ohm/km	1.150	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	5.1	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
	Min. DC resistance at 20°C	m.ohm.km	5300	4300	3900	3500	3100	2800	2600	2400	2200	2000	1800	1600
Nominal sheath thickness		mm	2.3	2.3	2.4	2.5	2.6	2.8	2.9	3.0	3.1	3.3	3.4	3.7
Overall diameter	approx.	mm	43.1	43.1	45.5	48.1	51.8	55.9	59.1	62.4	66.2	71.6	76.5	83.4
Cable Net. Weight	approx.	kg/km	1912	2124	2517	2992	3754	4707	5555	6494	7711	9603	11552	14302
Standard length per reel		m	1000	1000	1000	1000	1000	500	500	500	500	500	300	300
Minimum bending radius		mm	517	517	546	577	622	671	709	749	794	859	918	1001
Capacitance		µF/km	0.122	0.149	0.165	0.181	0.205	0.229	0.249	0.269	0.293	0.325	0.356	0.397
Inductance		mH/km	0.210	0.171	0.154	0.141	0.125	0.112	0.103	0.095	0.087	0.079	0.072	0.064
Current carrying capacity at 30°C	in air	A	108	134	173	206	257	313	360	410	469	553	629	714
	in ground		98	127	164	194	236	285	322	362	409	474	533	596
Short circuit current at 1 sec.		kA	2.3	3.6	5.0	7.1	9.9	13.5	17.0	21.3	26.3	34.1	42.6	56.8
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

NA2XSEY - ALUMINIUM CONDUCTOR

3 CORES

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	11.3	12.7	14.0	15.7	18.0	20.1	22.9
	Max. DC resistance at 20°C	Ohm/km	1.91	1.20	0.868	0.641	0.443	0.320	0.253	0.206	0.164	0.125	0.100	0.0778
Insulation	Nominal thickness	mm	5.1	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
	Min. DC resistance at 20°C	m.ohm.km	5300	4300	3900	3500	3100	2800	2500	2400	2200	2000	1800	1600
Nominal sheath thickness		mm	2.3	2.3	2.4	2.5	2.6	2.7	2.9	3.0	3.1	3.3	3.4	3.6
Overall diameter	approx.	mm	43.0	42.9	45.4	48.0	51.7	55.6	59.1	62.2	66.0	71.4	76.1	82.6
Cable Net. Weight	approx.	kg/km	1620	1661	1881	2131	2513	2953	3391	3805	4357	5190	6003	7171
Standard length per reel		m	1000	1000	1000	1000	1000	500	500	500	500	500	300	300
Minimum bending radius		mm	516	515	545	576	620	667	709	746	792	857	913	991
Capacitance		µF/km	0.122	0.149	0.164	0.180	0.205	0.229	0.249	0.267	0.291	0.324	0.353	0.392
Inductance		mH/km	0.210	0.171	0.156	0.142	0.125	0.112	0.103	0.096	0.088	0.079	0.072	0.065
Current carrying capacity at 30°C	in air	A	102	122	139	161	204	242	282	319	365	425	481	552
	in ground		92	108	127	146	179	214	246	272	308	358	398	445
Short circuit current at 1 sec.		kA	1.5	2.3	3.2	4.6	6.4	8.7	11.0	13.8	17.0	22.1	27.6	36.8
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

N2XSEY & NA2XSEY SINGLE JACKET

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

Nominal Voltage : 12/20 kV
Maximum System Voltage : 24 kV
Specification : IEC 60502-2 : 2005
Other specifications are available on request

N2XSEY - COPPER CONDUCTOR

3 CORES

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	23.2
	Max. DC resistance at 20°C	Ohm/km	1.150	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	6.6	6.0	5.5	5.5	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	6200	5200	4400	4100	3600	3300	3000	2800	2600	2300	2100	1900
Nominal sheath thickness		mm	2.6	2.6	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.4	3.6	3.8
Overall diameter	approx.	mm	50.2	50.1	50.2	52.9	56.5	60.4	63.6	66.9	70.7	76.1	81.2	87.9
Cable Net. Weight	approx.	kg/km	2427	2639	2869	3362	4149	5100	5969	6929	8170	10096	12114	14870
Standard length per reel		m	1000	1000	500	500	500	500	500	500	500	300	300	300
Minimum bending radius		mm	602	601	602	635	678	725	763	803	848	913	974	1055
Capacitance		µF/km	0.105	0.124	0.145	0.158	0.177	0.197	0.214	0.230	0.250	0.277	0.302	0.336
Inductance		mH/km	0.244	0.206	0.177	0.162	0.144	0.129	0.119	0.111	0.102	0.092	0.085	0.076
Current carrying capacity at 30°C	in air	A	108	134	173	206	257	313	360	410	469	553	629	760
	in ground		98	127	164	194	236	285	322	362	409	474	533	596
Short circuit current at 1 sec.		kA	2.3	3.6	5.0	7.1	9.9	13.5	17.0	21.3	26.3	34.1	42.6	56.8
AC voltage test		kV/5 min	42	42	42	42	42	42	42	42	42	42	42	42

NA2XSEY - ALUMINIUM CONDUCTOR

3 CORES

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	11.3	12.7	14.0	15.7	18.0	20.1	22.9
	Max. DC resistance at 20°C	Ohm/km	1.91	1.20	0.868	0.641	0.443	0.320	0.253	0.206	0.164	0.125	0.100	0.0778
Insulation	Nominal thickness	mm	6.6	6.0	5.5	5.5	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	6100	5100	4400	4100	3600	3200	3000	2800	2500	2300	2100	1900
Nominal sheath thickness		mm	2.6	2.6	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.4	3.6	3.8
Overall diameter	approx.	mm	50.1	50.0	50.1	52.8	56.4	60.3	63.7	66.7	70.5	75.9	80.9	87.3
Cable Net. Weight	approx.	kg/km	2134	2173	2232	2500	2907	3373	3805	4238	4814	5681	6563	7774
Standard length per reel		m	1000	1000	500	500	500	500	500	500	500	300	300	300
Minimum bending radius		mm	601	600	601	634	677	724	764	800	846	911	971	1048
Capacitance		µF/km	0.105	0.124	0.144	0.157	0.177	0.197	0.214	0.229	0.249	0.276	0.300	0.332
Inductance		mH/km	0.244	0.206	0.178	0.163	0.144	0.129	0.119	0.112	0.103	0.093	0.085	0.077
Current carrying capacity at 30°C	in air	A	102	122	139	161	204	242	282	319	365	425	481	552
	in ground		92	108	127	146	179	214	246	272	308	358	398	445
Short circuit current at 1 sec.		kA	1.5	2.3	3.2	4.6	6.4	8.7	11.0	13.8	17.0	22.1	27.6	36.8
AC voltage test		kV/5 min	42	42	42	42	42	42	42	42	42	42	42	42

N2XSEY & NA2XSEY SINGLE JACKET

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

Nominal Voltage : 18/30 kV
Maximum System Voltage : 36 kV
Specification : IEC 60502-2 : 2005
Other specifications are available on request

N2XSEY - COPPER CONDUCTOR

3 CORES

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	23.2
	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	9.1	8.6	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
	Min. DC resistance at 20°C	m.ohm.km	6600	5800	5200	4600	4200	3900	3700	3400	3100	2800	2600
Nominal sheath thickness		mm	3.0	3.0	3.0	3.2	3.3	3.4	3.5	3.6	3.8	4.0	4.2
Overall diameter	approx.	mm	64.3	64.4	64.3	68.1	72.0	75.2	78.5	82.3	87.7	92.8	99.5
Cable Net. Weight	approx.	kg/km	3866	4097	4366	5244	6260	7182	8194	9498	11513	13617	16483
Standard length per reel		m	500	500	500	500	300	300	300	300	300	250	200
Minimum bending radius		mm	772	773	772	817	864	902	942	988	1052	1114	1194
Capacitance		µF/km	0.098	0.110	0.124	0.138	0.152	0.164	0.175	0.189	0.208	0.226	0.249
Inductance		mH/km	0.262	0.233	0.206	0.186	0.168	0.156	0.146	0.135	0.123	0.113	0.102
Current carrying capacity at 30°C	in air	A	146	175	209	260	317	364	415	475	559	636	768
	in ground		142	172	205	249	299	339	381	430	498	560	632
Short circuit current at 1 sec.		kA	3.6	5.0	7.1	9.9	13.5	17.0	21.3	26.3	34.1	42.6	56.8
AC voltage test		kV/5 min	63	63	63	63	63	63	63	63	63	63	63

NA2XSEY - ALUMINIUM CONDUCTOR

3 CORES

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	11.3	12.7	14.0	15.7	18.0	20.1	22.9
	Max. DC resistance at 20°C	Ohm/km	1.20	0.868	0.641	0.443	0.320	0.253	0.206	0.164	0.125	0.100	0.0778
Insulation	Nominal thickness	mm	9.1	8.6	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
	Min. DC resistance at 20°C	m.ohm.km	6600	5900	5200	4700	4200	3900	3700	3400	3100	2800	2600
Nominal sheath thickness		mm	3.0	3.0	3.0	3.2	3.3	3.4	3.5	3.6	3.8	3.9	4.2
Overall diameter	approx.	mm	64.2	64.3	64.2	68.0	71.9	75.3	78.3	82.1	87.5	92.3	98.9
Cable Net. Weight	approx.	kg/km	3397	3459	3503	4002	4530	5017	5501	6140	7096	8017	9378
Standard length per reel		m	500	500	500	500	300	300	300	300	300	250	200
Minimum bending radius		mm	770	772	770	816	863	904	940	985	1050	1108	1187
Capacitance		µF/km	0.098	0.109	0.123	0.138	0.152	0.164	0.174	0.188	0.207	0.224	0.247
Inductance		mH/km	0.262	0.235	0.207	0.186	0.168	0.156	0.146	0.136	0.123	0.114	0.103
Current carrying capacity at 30°C	in air	A	128	140	164	207	248	286	323	368	430	487	600
	in ground		123	136	156	189	226	258	287	325	377	419	501
Short circuit current at 1 sec.		kA	2.3	3.2	4.6	6.4	8.7	11.0	13.8	17.0	22.1	27.6	36.8
AC voltage test		kV/5 min	63	63	63	63	63	63	63	63	63	63	63