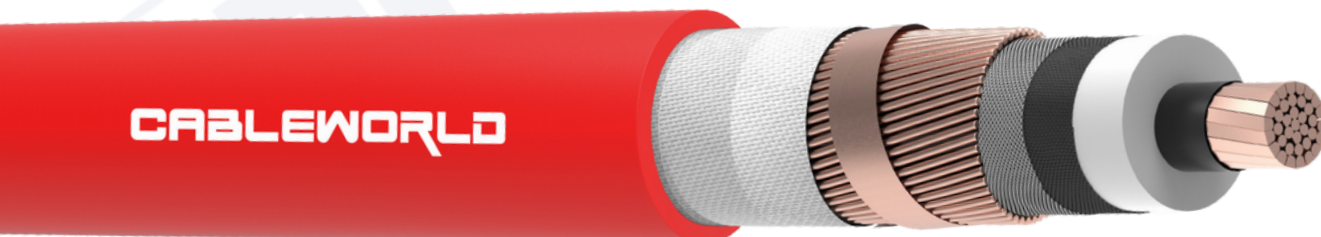
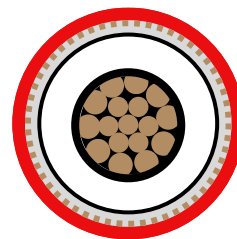




N2XSY - 18 / 30 (36) kV

XLPE PVC



DESCRIPTION

Conductor: Stranded Class 2 Bare Copper, **Conductor Screen:** Semi-conductive material (Bonded Type), **Insulation:** XLPE (Cross-Linked Polyethylene), **Insulation Screen:** Semi-conductive material (Strippable Type), **Metallic Screen:** Copper Wire Screen + Copper Tape open helix, **Sheath:** PVC (Polyvinyl Chloride), **Sheath Colour:** Red or Black.

APPLICATION

Medium voltage cable designed for power distribution networks, generation facilities, and industrial plant connections. Suitable for direct burial, as well as installation outdoors, indoors, and in cable ducts.

TECHNICAL DATA

Voltage Rating:	18/30 (36)kV
Max. Cond. Operating Temp.:	+90°C
Initial Temp. at S.C.C for Metallic Screen:	+80°C
Max. Cond. Temp. during S.C:	+250°C
Min. Bend. Radius:	15 x D
Flame Retardant:	IEC/EN 60332-1-2
UV-Resistant:	Yes
Standards:	IEC 60502-2, EN 60228
Laying conditions at trefoil formation are as below:	
Soil thermal resistivity: 120 °C.Cm/Watt	
Burial depth: 0.5 m	
Ground temperature: 15 °C	
Air temperature: 25 °C	
Frequency: 50 Hz	

TDS 1 OF 2



N2XSYP - 18 / 30 (36) kV

XLPE PVC

No. of Cores	Cond. Size	Nom. Screen CSA	Nom. Insulation Thickness	Nom. Sheath Thickness	Nom. OD	Nom. Weight
	mm ²	mm ²	mm	mm	mm	Kg/Km
1	50	16	8	2	31.4	1304
1	70	16	8	2	33.2	1550
1	95	16	8	2.1	34.5	1827
1	120	16	8	2.1	35.9	2095
1	150	25	8	2.2	37.9	2506
1	185	25	8	2.2	39.4	2870
1	240	25	8	2.3	42	3501
1	300	25	8	2.4	44.6	4128
1	400	35	8	2.5	47.6	5105
1	500	35	8	2.6	51.2	6167
1	630	35	8	2.7	56.1	7677
1	800	35	8	2.8	60.4	9543

ALL FIGURES QUOTED ARE APPROXIMATE

Cond. Size	Max. DC Resistance @ 20°C	Max AC Resistance @ Op. Temp. 50Hz	Capacitance	Charging Current	Dielectric Losses	Reactance @ 50Hz	Conductor SCC 1 sec	Copper Screen SCC 1 sec	Current Carrying Capacity A	
mm ²	Ω/Km	Ω/Km	μF/Km	A/Km	W/Km	Ω/Km	kA	kA	In Ground	In Free Air
50	0.387	0.494	0.141	0.799	57.52	0.145	7.15	3.2	234	249
70	0.268	0.342	0.159	0.898	64.62	0.136	10.01	3.2	284	309
95	0.193	0.247	0.171	0.968	69.68	0.131	13.585	3.2	340	382
120	0.153	0.196	0.184	1.043	75.09	0.126	17.16	3.2	386	441
150	0.124	0.159	0.199	1.128	81.23	0.121	21.45	5	431	494
185	0.0991	0.128	0.213	1.208	86.95	0.118	26.455	5	487	571
240	0.0754	0.098	0.236	1.334	96.06	0.113	34.32	5	557	673
300	0.0601	0.078	0.258	1.46	105.11	0.109	42.9	5	625	777
400	0.047	0.062	0.282	1.595	114.87	0.105	57.2	7.1	699	887
500	0.0366	0.049	0.313	1.772	127.59	0.101	71.5	7.1	785	1021
630	0.0283	0.039	0.356	2.015	145.11	0.098	90.09	7.1	868	1153
800	0.0221	0.032	0.394	2.227	160.34	0.095	114.4	7.1	947	1299

ALL FIGURES QUOTED ARE APPROXIMATE

E&OE. Manufacturers reserve the right to amend the specification without prior notice.

TDS 2 OF 2

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