

RALOS Flexible XLPE Cable

Cable Drawing



Applications

0.6/1kV electric cables use for main power and control systems applications, standard to AS/NZS5000.1.

BC(CL5)/X-90/5V-90 PVC

Mechanical and Electrical Properties

Temperature Range: -20 to +90°C.

Rated Voltage: 0.6/1kV AC
0.9/1.5kV DC

Min Bending Radius: 6 X Cables Diameter after installed, 12 X Cables Diameter during installing.

Parameter

Part No.	Cores x CSA	Diameter of Conductor	Thickness of Insulation	Diameter of Insulation	Thickness of Outer Sheath	Overall Diameter	Approx Weight	20°C Max. D.C Conductor Resistance	Current Rating
	mm ²	mm	mm	mm	mm	mm	kg/km	Ω/km	AMPS
XLPE1X16	16	5.5	0.7	6.9	1.4	9.7	204	1.21	85
XLPE1X25	25	6.9	0.9	8.7	1.4	11.5	297	0.78	114
XLPE1X35	35	8.2	0.9	10.0	1.4	12.8	392	0.554	141
XLPE1X50	50	9.8	1.0	11.8	1.4	14.6	539	0.386	178
XLPE1X70	70	11.7	1.1	13.9	1.4	16.7	733	0.272	225
XLPE1X95	95	13.3	1.1	15.5	1.5	18.5	946	0.206	271
XLPE1X120	120	14.9	1.2	17.3	1.5	20.3	1192	0.161	322
XLPE1X150	150	16.9	1.4	19.7	1.6	22.9	1476	0.129	372
XLPE1X185	185	18.3	1.6	21.5	1.6	24.7	1794	0.106	427
XLPE1X240	240	20.9	1.7	24.3	1.7	27.7	2323	0.0801	514
XLPE1X300	300	23.9	1.8	27.5	1.8	31.1	2876	0.0641	591
XLPE1X400	400	27.5	2.0	31.5	1.9	35.3	3754	0.0486	709
XLPE1X500	500	31.0	2.2	35.4	2.0	39.4	4717	0.0384	821
XLPE1X630	630	35.0	2.4	39.8	2.2	44.2	6225	0.0287	956

*AS/NZS 3008.1.1:2017 Table 8 (Fixed-Unenclosed, Touching, Flexible Copper Conductor) 90°C operating temperature, 40°C air temperature, 25°C soil temperature.

Cable Construction

Conductor: Annealed bare copper wire conductor standard to AS/NZS1125 class 5.

Insulation: X-90 comply to AS/NZS3808, insulation color identification see below.

1 Core: Natural

Outer Sheath: 5V-90 PVC comply to AS/NZS3808, color is Orange.

Relevant Standard

AS/NZS1125, AS/NZS3808, AS/NZS5000.1, IEC60332-1

Certificate of Compliance

DKSH Australia Pty. Ltd.
1 Beyer Road.
Braeside VIC 3195.
Phone: 1800 010 113.
Fax : (03) 9554 6677
Email: sales.quotes@dksh.com

Certificate NO. : HY20230303-01	Issued On: 03 - March, 2022
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This certificate relates to the following:

Product Type	Electric Cable (SDI)
Voltage	0.6/1kV
Temperature	-20 up to +90°C
Description	Conductor: Bare copper wire class 5 Insulation: X-90 Outer Sheath: 5V-90 PVC

We hereby confirm that the above cables conform to every respect to the relevant AS/NZS1125 & AS/NZS3808 & AS/NZS5000.1.