

Cable Code: CHTNXC070003RD0>
Description: LCL/IMP CU/XLPE/SWA/PVC 11kV COPPER CABLE 3x70.00MM RED - Loose
Reference: 0
Standard: IEC 60502-2



Main Application:

Power cables for power networks, underground and in cable ducting.

Parameters:

Physical	Conductor	Stranded Copper	
	Insulation	XLPE material	
	Armouring	Galvanised Steel Wire	
	Sheathing	PVC	
	Cross sectional area	70 sq mm	
	No. of Cores:	3	
	Core Colours:	3	
	Nom. Overall Diameter	53.7 mm	
	Nom. Weight	5638 kg/m	
Electrical	Rated Voltage (U0/U)	6.35/11(12) kV	
	Max. Conductor D.C Resistance	20oC	0.268 Ohms
	Max. Conductor A.C Resistance	@ 90°C	0.342 Ohms
	Charging Current		0.605 A/Km
	Dielectric Losses		15.35 W/Km
	Current Rating	Direct in Ground	263 A
	Current Rating	In Duct	0 A
	Current Rating	Installed in Free Air	284 A
	Approx. Volt Drop		0 mV/A/m
	Inductive Reactance of Cable at 50Hz (approx.)		0.104 Ω/km
	Capacitance of Cable (approx.)		0.363 µF/km
	Short Circuit Current Rating for 1 second duration		10.01 kA
Thermal	Maximum conductor operating temperature:		90 oC
	Maximum screen operating temperature:		80 oC
	Lowest installation temperature:		0 oC
	Maximum short-circuit conductor temperature:		250 oC
Mechanical	Tensile load		0 N/mm2
	Min. bending radii		806 mm
Chemical	Resistance to oil:	According to IEC Standard	
	Weather resistance:		

BASIC ASSUMPTION FOR CURRENT RATINGS & RATING FACTORS

The current ratings of cables as indicated in various tables have been calculated on certain assumed conditions.

In actual practice these conditions may be different. Therefore to determine the actual current ratings as per installation conditions, the tabulated ratings shall be multiplied with appropriate factors

- i. Maximum permissible temperature: 90°C for XLPE insulation, 70°C for general purpose PVC, 85°C for HR PVC
- ii. Ground/Duct temperature: 20°C
- iii. Air temperature: 30°C
- iv. Thermal resistivity of soil: 1.2°C m/W
- v. Thermal resistivity of Dielectric 650°C cm/W for PVC, 350°C cm/W for XLPE
- vi. Cables are installed in a single circuit
- vii. Frequency 50Hz
- viii. Depth of laying: 500mm

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