

Cable Code: CHTNXC095003RD0>
Description: LCL/IMP CU/XLPE/SWA/PVC 11kV COPPER CABLE 3x95.00MM 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	95 sq mm
	No. of Cores:	3
	Core Colours:	3
	Nom. Overall Diameter	56.7 mm
	Nom. Weight	6603 kg/m
Electrical	Rated Voltage (U ₀ /U)	6.35/11(12) kV
	Max. Conductor D.C Resistance @ 20°C	0.193 Ohms
	Max. Conductor A.C Resistance @ 90°C	0.247 Ohms
	Charging Current	0.662 A/Km
	Dielectric Losses	16.81 W/Km
	Current Rating Direct in Ground	327 A
	Current Rating In Duct	0 A
	Current Rating Installed in Free Air	326 A
	Approx. Volt Drop	0 mV/A/m
	Inductive Reactance of Cable at 50Hz (approx.)	0.099 Ω/km
	Capacitance of Cable (approx.)	0.398 µF/km
	Short Circuit Current Rating for 1 second duration	13.585 kA
Thermal	Maximum conductor operating temperature:	90 °C
	Maximum screen operating temperature:	80 °C
	Lowest installation temperature:	0 °C
	Maximum short-circuit conductor temperature:	250 °C
Mechanical	Tensile load	0 N/mm ²
	Min. bending radii	570 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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