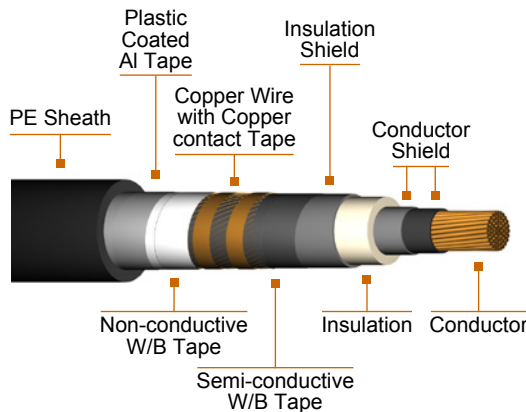


138 kV E-HXLP

Extra High Voltage Cross-linked Polyethylene Single Core Cable 138 kV, Copper Conductor with Copper Wire Shield



Detail Description or Construction

Conductor

Compact round stranded copper

Conductor Shield

Semi-conducting tape and extruded semi-conducting cross-linked polyethylene

Insulation

Cross-linked polyethylene

Insulation Shield

Semi-conducting cross-linked polyethylene

Synthetic water blocking layer

Semi-conducting water blocking tape

Shield

Annealed copper wire with copper contact tape

Synthetic water blocking layer

Non-conductive water blocking tape

Radial water barrier

Copolymer-coated Aluminum tape

Sheath

Black polyethylene (ST 7)
(Optional: Polyvinyl chloride)

Application

Preferably used for urban networks. Suitable for use in duct, trays and direct burial in ground, subjected to immerse in water all the time.

Standards / Testing Specifications

- IEC 60840.

Marking

138 KV EHXLP SIZE SQ.MM.,
PHELPS DODGE.

Installation

E-HXLP cable can be installed in aerial, direct burial, conduit, open tray, underground duct and subjected to immerse in water all the time. It is recommended that the installation instructions indicated by the Local Electric Code, or any equivalent, be followed, so that the safe guarding of persons and the integrity of the product will not be affected by deficiencies in the installation.



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Nominal Sectional Area	Minimum Number of Wire	Diameter of Conductor (approx)	Thickness of Cdr. Screen	Thickness of Insulation	Thickness of Ins. Screen	Nominal Sectional Area of Wire Shield	Thickness of Sheath	Overall Diameter (approx)	Maximum DC. Resistance of Cdr. @ 20°C	Electrostatic Capacitance (Nominal)	Ampacity Direct Burial @ 30°C (flat)**	Cable Weight (approx)	Standard Packing
mm ²		mm	mm	mm	mm	mm ²	mm	mm	Ω / km	μF / km	A	kg / km	m / reel
400	53	23.4	1.5	18	1.5	150	3.4	82	0.0470	0.150	615	8660	500
500	53	26.7	1.5	18	1.5	150	3.5	86	0.0366	0.163	700	9880	500
630	53	30.0	1.5	18	1.5	150	3.6	89	0.0283	0.175	795	11440	500
800	53	34.0	1.5	18	1.5	150	3.8	94	0.0221	0.190	895	13390	500
1000	53	40.0	1.5	18	1.5	150	4.0	100	0.0176	0.211	990	15800	500
1200	-	43.0	1.5	18	1.5	150	4.0	103	0.0151	0.223	1125	17660	500

** Depth of laying in ground = 1.3 m, RHO 1.2 °C-m/W, spacing between cable = 2 x cable overall diameter.