



MV-90 (Medium Voltage) Shielded Power Cables XLP Insulated 5kv to 35kv

APPLICATIONS

For installations in conduit, ducts, aerial and direct burial. Primary power and distribution circuit in industrial, commercial and utility installations. For normal continuously operation not exceeding 90°C in wet and dry locations.

SPECIFICATIONS

XLPE insulated Medium Voltage cables meet or exceed all applicable requirements of the following standards:

- UL 1072, Standard for Medium Voltage Power Cables.
- ICEA S-93-639 (NEMA WC 74), Standard for Shielded Power Cables 5 – 46 kV

CONSTRUCTION

Conductor:	Bare copper, class B compressed concentric stranding.
Conductor Shield:	Extruded semi-conducting thermosetting compound.
Insulation:	XLP (Cross-Linked Polyethylene), 100% or 133% Insulation levels.
Insulation Shield:	Extruded semi-conducting thermosetting compound.
Metallic Shield:	Uncoated copper wires, helically applied.
Jacket:	Black sunlight resistant polyvinyl chloride (PVC).

MAXIMUM CONDUCTOR TEMPERATURE

Normal continuous @ 90 degrees C, overload @ 130 degrees C, and Short circuit @ 250 degrees C.

FEATURES & BENEFITS, OPTIONS

- Triple extruded construction by dry curing process guarantees excellent quality of cables.
- Clean stripping insulation shield.
- Triplex configuration option; offers cost saving at the installation stage.

Phoenix Wire and Cable Corp.

1255 Buford Highway; Suite 202, Suwanee GA 30024

Phone: (770) 904 4135; Fax: (770) 904 4139

E-mail: pwc@phoenixwc.com

web site: www.phoenixwc.com



MV-90 (Medium Voltage) Shielded Power Cables XLP Insulated 15kv

15KV XLP 175 MILS (100% INSULATION LEVEL)

Phase Conductor		Thickness (Mils)		Diameter (Inches)			Net Weight (lbs./1000ft)	Allowable Ampacities+	
Size (AWG or kcmil)	No. of Wires	Insulation	Jacket	Over Insulation	Over Insulation Shield	Over Jacket	Complete Cable	Direct Buried	Duct In Air
2	7	175	80	0.690	0.770	1.010	550	155	150
1/0	19	175	80	0.780	0.860	1.080	690	200	195
2/0	19	175	80	0.820	0.900	1.120	800	230	225
3/0	19	175	80	0.870	0.950	1.170	930	260	260
4/0	19	175	80	0.930	1.010	1.230	1100	295	295
250	37	175	80	0.990	1.070	1.270	1240	325	330
350	37	175	80	1.090	1.190	1.390	1600	390	395
500	37	175	80	1.220	1.320	1.520	2160	465	480
750	61	175	110	1.410	1.510	1.710	3010	565	585
1000	61	175	110	1.560	1.680	1.940	4000	640	675

15KV XLP 220 MILS (133% INSULATION LEVEL)

Phase Conductor		Thickness (Mils)		Diameter (Inches)			Net Weight (lbs./1000ft)	Allowable Ampacities+	
Size (AWG or kcmil)	No. of Wires	Insulation	Jacket	Over Insulation	Over Insulation Shield	Over Jacket	Complete Cable	Direct Buried	Duct In Air
2	7	220	80	0.790	0.860	1.080	630	155	150
1/0	19	220	80	0.870	0.920	1.140	760	200	195
2/0	19	220	80	0.910	0.960	1.180	870	230	225
3/0	19	220	80	0.960	1.010	1.230	1010	260	260
4/0	19	220	80	1.020	1.080	1.290	1190	295	295
250	37	220	80	1.080	1.140	1.350	1360	325	330
350	37	220	80	1.180	1.240	1.470	1730	390	395
500	37	220	80	1.310	1.370	1.600	2270	465	480
750	61	220	110	1.500	1.560	1.790	3260	565	585
1000	61	220	110	1.650	1.730	2.020	4160	640	675

+ Ampacities based on earth thermal resistivity of 90°C-cm/watt, 90°C conductor temp., 20°C earth ambient temperature, 75% load factor, and 36" depth of burial. Values are based on one-three phase circuit, one conductor per phase, in adjacent configurations with neutral wires bonded at each end.