

MV-90 15kV

UL 1072, ASTM B-231, AEIC CS8, ICEA S-94-649

Medium Voltage 15kV 133% Aluminum Conductor, Copper Wire Shielded Power Cable

APPLICATIONS

INDUSTRIAL AND COMMERCIAL

- Chemical Plants
- Petrochemical Plants
- Electrical Utility Plants
- Water Treatment Facilities
- Steel Mills
- Paper Mills
- Airports
- Shopping Malls
- Military Bases
- Medical Facilities
- Sports Stadiums

INSTALLATIONS

- In Cable Tray
- Conduit in Air
- Aerial with Messenger Supported
- Direct Buried
- Underground Duct
- Wet and Dry Locations



CONSTRUCTION

Conductor	Class B compressed uncoated aluminum, watertight
Conductor shield	Extruded layer of semiconducting compound applied under simultaneous triple extrusion process
Insulation	Extruded layer of 90°C rated TR-XLPE
Insulation shield	Extruded layer of semiconducting compound applied by triple extrusion process
Metallic shield	Round Copper Wire Concentric Neutral with water blocking agent
Jacket	Extruded layer of black LLDPE with red stripes

Characteristic

Maximum conductor operating temperature:	+90°C
Maximum emergency overload temperature:	+140°C
Maximum short-circuit conductor temperature:	+250°C
Maximum sidewall pressure:	1000lbs/FT
Lowest ambient temperature for fixed installation:	-40°C
Lowest installation temperature:	-20°C
Minimum bending radius:	12xD (D-overall diameter of cable)

Approvals

(UL) E231073

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15kV 133% INSULATION LEVEL

Conductor Size	Insulation Thickness	Diameter over insulation	Concentric Neutral	Jacket Thickness	Outer Diameter	Cable Weight	Ampacities*			Min. Bending Radius	Max. Pull Tension
							Isolated in Air	Direct Buried	Under ground Duct		
AWG kcmil	mils	inches	No x AWG	mils	inches	Lbs / kft	A	A	A	inches	lbs
Full Concentric Neutral											
2	220	0.76	16 # 16	70	1.11	620	160	165	120	9.2	530
1	220	0.80	13 # 14	70	1.15	700	175	185	135	9.6	670
1/0	220	0.84	16 # 14	70	1.19	790	200	215	155	10.1	845
2/0	220	0.88	20 # 14	70	1.23	880	230	245	175	10.6	1065
3/0	220	0.94	25 # 14	70	1.28	1010	270	275	200	11.2	1345
4/0	220	0.99	32 # 14	70	1.34	1190	310	315	230	11.9	1695
250	220	1.05	38 # 14	70	1.42	1370	345	345	250	12.7	2000
350	220	1.15	52 # 14	70	1.52	1720	430	415	305	13.8	2800
One-Third Concentric Neutral											
500	220	1.28	25 # 14	90	1.65	1640	530	510	370	15.4	4000
750	220	1.47	38 # 14	90	1.89	2280	685	635	455	17.7	6000
1000	220	1.62	50 # 14	90	2.07	2840	825	740	525	19.4	6000
1250	220	1.76	62 # 14	90	2.21	3380	950	825	585	21.1	6000
1500	220	1.88	75 # 14	90	2.33	3850	1060	945	640	22.6	6000

* Ampacities „Underground Duct“ per NEC 2023 Table 315.60(C)(12). Ampacities „Isolated in Air“ per NEC 2023 Table 315.60(C)(4). Ampacities „Direct Buried“ per NEC 2023 Table 315.60(C)(16).

Standard print legend:

TF KABLE (SIZE) AL STRANDFILLED TYPE MV-90 (UL) TRXLPE 15kV 133% INS LEVEL 220 MILS SUN RES MADE IN POLAND (Year) ↘