MV-105 15 kV

UL 1072, ASTM B-496, ICEA S-93-639, ICEA S-97-682, AEIC CS8-2000, IEEE 383

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

APPLICATIONS

INDUSTRIAL AND COMMERCIAL
- Chemical Plants
- Petrochemical Plants
- Electrical Utility Plants
- Water Treatment Facilities
- Textile Mills
- 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 annealed uncoated copper
Conductor shield	Extruded layer of semiconducting compound applied under simultaneous triple extrusion process
Insulation	Extruded layer of 105°C rated Ethylene Propylene Rubber (EPR)
Insulation shield	Extruded layer of semiconducting compound applied by triple extrusion process
Metallic shield	5 mil bare copper tape applied helically with a 25% overlap.
Jacket	Extruded layer of black sunlight resistant Polyvinyl Chloride (PVC)

Characteristic

Maximum conductor operating temperature:	+105°C
Maximum conductor emergency overload temperature:	+140°C
Maximum short-circuit conductor temperature:	+250°C

Lowest ambient temperature for mixed installation	-40°C
Lowest installation temperature	-5°C
Minimum bending radius	12xD (D-overall diameter of cable)

- Flame retardant PVC jacket
- Listed for CT use for sizes I/0 AWG and larger

Approvals

(UL): E231073

Technical and Electrical Characteristic

Part Number	Conductor Size	Insulation Thickness	Diameter over Insulation	Jacket Thickness	Outer Diameter	Cable Weight	Ampacities *		
							Isolated in Air	Direct Buried	Underground Duct
	AWG / MCM	**mils**	**inches**	**mils**	**inches**	**lbs /kft**	**A**		
MV10515kV2	2 AWG	220	0.75	80	1.03	593	215	225	165
MV10515kV1	1 AWG		0.79		1.05	700	250	260	185
MV10515kV1/0	1/0 AWG		0.82		1.09	770	290	295	215
MV10515kV2/0	2/0 AWG		0.86		1.13	865	335	335	245
MV10515kV3/0	3/0 AWG		0.92		1.17	1040	385	380	275
MV10515kV4/0	4/0 AWG		0.97		1.21	1165	445	435	315
MV10515kV250	250 MCM		1.02		1.30	1320	495	475	345
MV10515kV350	350 MCM		1.12		1.40	1680	610	575	415
MV10515kV500	500 MCM		1.26		1.52	2200	765	700	500
MV10515kV750	750 MCM		1.41	110	1.77	3115	990	865	610
MV10515kV1000	1000 MCM		1.97		1.95	4060	1185	1005	690

** Ampacities „Underground Duct" per NEC 2011 Table 310.60 (C) (77). Ampacities „Isolated in Air" per NEC 2011 Table 310.60 (C) (69). Ampacities „Direct Buried" per NEC 2011 Table 310.60 (C) (81).*

Standard print legend:

TF Cable (voltage) (size) TYPE MV-105 SHIELDED COPPER EPR 133% INS LEVEL SUN RES FOR CT USE DIRECT BURIAL UL E231073

All the information in this document – including tables and diagrams – is given in good faith and believed to be correct at the time od publication. The information does not constitute a warranty nor representation for which TELE-FONIKA Kable assumes legal responsibility. TELE-FONIKA Kable reserves rights to introduce changes to the document at any time