A brand of the Prysmian Group

5-35kV 1/C EPR MV-105 EASY GLIDER™ (Tape Shield)

Medium Voltage Commercial & Industrial Cables

Description

Prysmian's Easy Glider™ cable is designed to facilitate conduit installation without the application of pulling lubricant.
Single conductor cable with stranded copper or aluminum conductor, triple extruded insulation system consisting of a thermosetting semiconducting conductor shield, high dielectric strength EPROTENAX™ EPR insulation, thermosetting semiconducting insulation shield, helically applied bare copper tape shield, and black, low coefficient of friction, PVC jacket.

Specifications

AEIC- AEIC CS8
ICEA- ICEA S-93-639
ICEA- ICEA S-97-682
UL- UL-1072
IEEE- IEEE 383 Flame Test
IEEE- IEEE 1202 Flame Test
CSA- C68.10

Ratings

Type MV-105
Sunlight Resistant
For CT USE (1/0 AWG & Larger)
(1/0 AWG and Larger)
(250 MCM and Larger)
FT1 (1/0 AWG - 4/0 AWG)
FT4 (250 MCM and Larger)
-40°C Cold Impact and Cold Bend

For 105°C continuous, 140°C emergency,
250°C short-circuit operation.

Options

- Strandseal®
- Compressed or compact stranded conductors
- Colored Jackets
- LLDPE*, CPE or LSOH Jacket
- Oil Resistant jacket
- Standard PVC jacket
- Multiplex cables
- Standard PVC jacket

UL does not recognize LLDPE as MV-105

Design Parameters

CONDUCTOR: Class B compact strand aluminum alloy 1350 or compact concentric soft drawn annealed copper per ASTM.

CONDUCTOR SHIELD: Extruded thermosetting semiconducting shield which is free stripping from the conductor and bonded to the insulation.

INSULATION: Natural high dielectric strength EPROTENAX™ EPR-based insulation, combined with other materials and agents that enhance the electrical and mechanical characteristics assuring extended cable life.

INSULATION SHIELD: Extruded thermosetting semiconducting shield with controlled adhesion to the insulation providing the required balance between electrical integrity and ease of stripping.

METALLIC SHIELD: Helically applied non-magnetic copper tape(s) over the insulation shield with a nominal overlap of 25%.

JACKET: Black, sunlight resistant, low coefficient of friction, polyvinyl chloride (PVC) jacket tightly applied over the copper tape.

Installation

- Conduit in Air
- Direct Buried
- Underground Duct
- Isolated in Air
- With Messenger
- Wet Locations
- Dry Locations
- Industrial
- In Cable Tray

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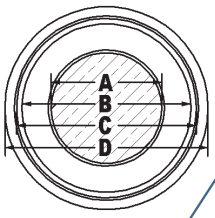
15kV 1/C EPR MV-105 EASY GLIDER™ (Tape Shield)

100/133% Medium Voltage Commercial & Industrial Cables



Product Number	Conductor	Insulation Thickness (mils)	Conductor Diameter (in)	Insulation Diameter (in)	Insulation Shield Diameter (in)	Jacket Diameter (in)	Cable Weight (lbs/kft)	Minimum Bending Radius (in)	† Ampacity (Amps)	
			(A)	(B)	(C)	(D)			‡105°C In Duct	‡105°C In Air
15kV 100% Copper One Conductor										
TBD	2 AWG CU	175	0.266	0.65	0.71	0.84	525	11	165	215
TBD	1 AWG CU	175	0.299	0.69	0.74	0.91	621	11	185	250
TBD	1/0 AWG CU	175	0.341	0.73	0.79	0.95	713	12	215	290
TBD	2/0 AWG CU	175	0.376	0.76	0.82	0.98	818	12	245	335
TBD	3/0 AWG CU	175	0.423	0.81	0.87	1.03	952	13	275	385
TBD	4/0 AWG CU	175	0.479	0.87	0.92	1.09	1115	14	315	445
TBD	250 MCM CU	175	0.522	0.92	0.97	1.14	1264	14	345	495
TBD	350 MCM CU	175	0.622	1.02	1.07	1.24	1629	15	415	610
TBD	500 MCM CU	175	0.742	1.14	1.19	1.36	2157	17	500	765
TBD	750 MCM CU	175	0.917	1.32	1.38	1.54	3060	19	610	990
TBD	1000 MCM CU	175	1.071	1.48	1.53	1.69	3894	21	690	1185
15kV 133% Copper One Conductor										
20148384	2 AWG CU	220	0.266	0.74	0.80	0.96	590	12	165	215
TBD	1 AWG CU	220	0.299	0.78	0.83	1.00	696	12	185	250
20148385	1/0 AWG CU	220	0.341	0.82	0.88	1.04	762	13	215	290
20148386	2/0 AWG CU	220	0.376	0.85	0.91	1.07	863	13	245	335
TBD	3/0 AWG CU	220	0.423	0.90	0.96	1.12	1036	14	275	385
20148387	4/0 AWG CU	220	0.479	0.96	1.02	1.17	1161	15	315	445
20148388	250 MCM CU	220	0.522	1.01	1.06	1.22	1314	15	345	495
20148389	350 MCM CU	220	0.622	1.11	1.16	1.32	1676	16	415	610
20148390	500 MCM CU	220	0.742	1.23	1.28	1.44	2204	18	500	765
20148391	750 MCM CU	220	0.917	1.41	1.47	1.63	3110	20	610	990
20148392	1000 MCM CU	220	1.071	1.57	1.62	1.84	4056	23	690	1185

PRODUCT NOTES:

The above dimensions are approximate and subject to normal manufacturing tolerances.

†Ampacities are based on the following:

Three Phase Operation

In Duct per 2014 NEC Table 310.60(C)(77): Three single conductor cables in plastic duct, direct-buried, 105°C conductor temperature, 20°C ambient temperature, earth RHO of 90°C-cm/Watt, and 100% load factor, and shields short-circuited.

Isolated in Air per 2014 NEC Table 310.60(C)(69): Insulated single conductor isolated in air, 105°C conductor temperature, and 40°C ambient temperature, and shields grounded at one point only.

In Cable Tray per 2014 NEC 392.80(B)(2)(b): Single conductor cables, sizes 1/0 AWG and larger, installed in a single layer in an uncovered table tray, with a maintained space of not less than one cable diameter between individual conductors, the ampacities shall not exceed the allowable ampacities stated in 2014 NEC Table 310.60(C)(69) (Copper), "Isolated in Air" values noted above.

‡EPROTENAX® EPR-insulated cables are capable of operating at 105°C. However, the maximum operating temperature of the cable should be based on the maximum operating temperature of the cable accessories to be used.

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