

MP-GC 15000V EPR/CPE

Mine Power Feeder Cable Extra Heavy Duty EPR / CPE 90°C MSHA Mining Grade



SPECIFICATIONS & STANDARDS

ICEA S-75-381/NEMA WC58, ASTM B 8

CONSTRUCTION:

Conductor:	Bare copper, concentric strand ASTM B 8
Conductor shield:	Semi-conducting tape and compound, ICEA S-75-381 sec 3.14
Insulation:	Ethylene-propylene rubber (EPR), ICEA S-75-381, table 4-3/4-4
Insulation shield:	Semi-conducting compound, ICEA S-75-381 and 0.005 copper tape
Grounding cond:	Tin copper Class B, ICEA S-75-381, table 4-1
Ground check:	Bare copper, ICEA S-75-381 table 4-1; insulation color: yellow
Assembly:	Three power conductor, ground check and two non-insulated grounding conductors cabled with rubber fillers to make a round core; Single faced rubber filled binder tape applied overall
Jacket:	Black extra heavy duty CPE thermoset compound, ICEA S-75-381, table 3-3, 3-22, sec. 3.21
Color code:	Color code tape: black, white, red applied under metallic shielding tape provides circuit identification, ICEA S-75-381 sec 4.6

FEATURES	APPLICATION
<ul style="list-style-type: none"> - Ozone, sun, weather and flame resistant - Oil and heat resistant - Maximum continuous conductor temperature 90°C - Indent printed for easy identification 	<ul style="list-style-type: none"> - For use as trailing mining cables - For use up to 8000 volts when installed in ducts, conduits, open air and for direct burial in wet and dry locations

APPROVALS:

MSHA: P-07-KA050003-1

SPECIAL FACTORY OPTIONS:

Jacket: Other colors available
Neoprene®

UL TYPE MP-GC – 15000 VOLTS – 100% INSULATION LEVEL

Part Number	Power Conductor Size	Power Conductor Stranding	Size		Nominal Insulation Thickness	Nominal Jacket Thickness	Nominal O.D.		Approx. Weight	
			Ground	Ground Check			inches	mm	lbs/1000 ft	kgs/km
	AWG or MCM	No. of Stranding	AWG	AWG	inches	inches	inches	mm	lbs/1000 ft	kgs/km
MPGC15KV2-3-CPE	2 AWG	7	6	8	0.175	0.140	1.88	47.8	2285	3400
MPGC15KV1-3-CPE	1 AWG	7	5	8	0.175	0.140	1.98	50.3	2465	3668
MPGC15KV1/0-3-CPE	1/0 AWG	19	4	8	0.175	0.140	2.05	52.1	2785	4145
MPGC15KV2/0-3-CPE	2/0 AWG	19	3	8	0.175	0.140	2.15	54.6	3295	4904
MPGC15KV4/0-3-CPE	4/0 AWG	37	1	8	0.175	0.140	2.40	61.0	4605	6853
MPGC15KV250-3-CPE	250 MCM	37	1/0	8	0.175	0.140	2.50	63.5	4980	7400
MPGC15KV350-3-CPE	350 MCM	37	2/0	8	0.175	0.140	2.75	69.9	6370	9478
MPGC15KV500-3-CPE	500 MCM	37	4/0	8	0.175	0.140	3.10	78.7	8760	13030

ELECTRICAL AND MECHANICAL PARAMETERS

Power-Grounding Conductor Size	Power Conductor Resistance at 20°C	Grounding Conductor Resistance at 20°C	Ground Check Conductor Resistance at 20°C	Inductance per unit length	Operating Capacitance per unit length	Permissible Short-Circuit Current ⁽²⁾ (1s)	Ampacity ⁽¹⁾ 40°C Ambient Temp.	Maximum Permissible Tensile Force
AWG or MCM	Ω/1000Ft	Ω/1000Ft	Ω/1000Ft	mH/1000Ft	μF/1000Ft	kA	A	N
2 AWG - 6 AWG	0.162	0.427	0.652	0.122	0.08	4.80	164	1270
1 AWG - 5 AWG	0.129	0.338	0.652	0.118	0.08	6.06	187	1600
1/0 AWG - 4 AWG	0.102	0.269	0.652	0.114	0.09	7.65	215	2500
2/0 AWG - 3 AWG	0.081	0.213	0.652	0.107	0.10	9.64	246	3200
4/0 AWG - 1 AWG	0.051	0.134	0.652	0.102	0.11	15.30	325	400
250 MCM - 1/0 AWG	0.043	0.102	0.652	0.094	0.14	18.16	355	7700
350 MCM - 2/0 AWG	0.031	0.081	0.652	0.090	0.16	25.31	435	9100
500 MCM - 4/0 AWG	0.022	0.051	0.652	0.086	0.18	36.18	536	15100

(1) Ampacity- Free air measured; Based on continuous duty at 90°C conductor temperature (2) Short-circuit current (1s) – Based on conductor temperature from 90°C up to 250°C

STANDARD PRINT LEGEND:

TF CABLE 15000V (SIZE) GROUNDED MP-GC P-07-KA050003-1-MSHA



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