



# MP-GC

## 5000V/15000V

UL 1072, ASTM B8, ICEA S-75-381 / NEMA WC58

Mine Power Feeder Cable – XLPE / PVC 90°C MSHA Mining Grade

### APPLICATIONS

- bore holes
- shafts
- horizontal runs in underground entries
- aerial suspensions on insulators
- other semi-permanent and permanent mining and industrial feeder installations

### CONSTRUCTION

Conductor	Bare copper, concentric strand ASTM B8
Conductor shield	Extruded semi-conducting compound
Insulation	Cross-linked polyethylene (XLPE) 90°C
Insulation shield	Extruded semi-conducting compound, copper tape
Grounding cond	Bare copper class B
Ground check	Bare copper, ICEA S-75-381 sec. 4.6; yellow XLPE 45 mils insulation
Assembly	Three power conductors, ground check and two non-insulated grounding conductors cabled together with rubber fillers to form round core; polyester binder tape applied overall
Reinforcement	Reinforcement applied over the assembly for mechanical strength
Jacket	Black flame retardant PVC, ICEA S-75-381 table 4-7 (other colors available)
Color code	Color code tape: black, white, red applied under metallic shielding tape provides circuit identification, ICEA S-75-381 sec. 4.6



# Characteristic

Maximum conductor operating temperature:	+90°C
Maximum conductor emergency overload temperature:	+130°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)

## 5000 V – 100% insulation level

Part Number	Conductor Size	Conductor Strands	Size		Insulation Thickness	Jacket Thickness	Outer Diameter	Cable Weight	Ampacities *
			Ground	Ground chcek					
	AWG / MCM	No	AWG	AWG	inches	inches	inches	lbs/kft	A
MPGC5KV2/0-3	2/0	19	3	8	0.090	0.110	1.81	2660	243
MPGC5KV4/0-3	4/0	37	1			0.140	2.06	3760	321

\* Ampacity – Free air measured; based on continuous duty at 90°C conductor temperature

## 15000 V – 100% insulation level

Part Number	Conductor Size	Conductor Strands	Size		Insulation Thickness	Jacket Thickness	Outer Diameter	Cable Weight	Ampacities *
			Ground	Ground chcek					
	AWG / MCM	No	AWG	AWG	inches	inches	inches	lbs/kft	A
	2/0	19	3	8	0.175	0.140	2.20	3190	246
	4/0	37	1				2.45	4310	325

\* Ampacity – Free air measured; based on continuous duty at 90°C conductor temperature

### Standard print legend:

TF CABLE (VOLTAGE) (SIZE) GROUNDED MP-GC P-7K-254064-1-MSHA

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