

# TYPE MP-GC 3/c 8kV XLP/PVC

## Three conductor Mine power feeder cable Mining grade

### SPECIFICATIONS & STANDARDS

According to UL 1072  
ASTM B 8  
ICEA S-75-381/NEMA WC58

### CONSTRUCTION:

- Conductors:** Uncoated annealed copper, concentric stranded per ASTM B 8  
**Conductors shield:** Extruded semi-conducting compound  
**Insulation:** Cross-linked polyethylene (XLP) 90°C  
**Insulation shield:** Extruded semi-conducting compound, copper tape 0.003"  
**Circuit identification:** A color code tape (black, white, red) applied under the metallic shielding tape shall provide circuit identification on each power conductor in accordance with Par. 4.6 of ICEA
- Grounding conductors:** Annealed bare copper Class B  
**Ground check :** Annealed bare copper between the black and white power conductor  
Yellow XLP 45 mils insulation as per Par. 4.4.2 of ICEA S-66-524
- Assembly:** Three power conductor, ground check and two non-insulated grounding conductors cabled together with left hand lay with rubber fillers as required to make a round core; Estrofol binder tape applied overall
- Cable reinforcement:** Reinforcement is applied over the assembly for mechanical strength  
**Jacket:** Flame retardant PVC compound in accordance with Par. 4.8 of ICEA S-75-381  
**Color of jacket:** Black; Other colors available



FEATURES	APPLICATION
<ul style="list-style-type: none"><li>- Maximum continuous conductor temperature 90°C</li><li>- Flame resistant</li><li>- Oil resistant upon special request</li><li>- Indent printed for easy identification</li></ul>	<ul style="list-style-type: none"><li>- Shielded high voltage power distribution cable suitable for insulation in boreholes, shafts, horizontal runs in underground entries, aerial suspension on insulators and other semi-permanent mining and industrial feeder installations</li></ul>

Standard length cable packing: 1000 ft reels; Other forms of packaging available

### APPROVALS:

MSHA: P-7K-254064



TELE-FONIKA CABLE AMERICAS

1160 Pierson Drive, Suite 102  
Batavia, IL 60510  
tel: 630-406-9000 fax: 630-406-6574

12/08 v2.4

# TYPE MP-GC 3/c 8kV XLP/PVC

## UL TYPE MP-GC – 8000 VOLTS – 100% INSULATION LEVEL

Part Number	Power Conductor Size	Power Conductor Stranding	Size		Nominal Insulation Thickness	Nominal Jacket Thickness	Nominal O.D.		Approx. Weight		Ampacity <sup>(1)</sup> 40°C Ambient Temp.
			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	A
MPGC4-8KV	4 AWG	7	8	8	0.115	0.110	1.49	37.8	1350	2010	122
MPGC2-8KV	2 AWG	7	6	8	0.115	0.110	1.63	41.3	1740	2590	159
MPGC1-8KV	1 AWG	19	5	8	0.115	0.110	1.71	43.4	2010	3000	184
MPGC1/0-8KV	1/0 AWG	19	4	8	0.115	0.140	1.79	45.5	2320	3460	211
MPGC2/0-8KV	2/0 AWG	19	3	8	0.115	0.140	1.93	49.0	2810	4190	243
MPGC3/0-8KV	3/0 AWG	19	2	8	0.115	0.140	2.05	52.1	3320	4950	279
MPGC4/0-8KV	4/0 AWG	37	1	8	0.115	0.140	2.18	55.3	3920	5850	321
MPGC250-8KV	250 MCM	37	1/0	8	0.115	0.140	2.26	57.4	4480	6680	355
MPGC350-8KV	350 MCM	37	2/0	8	0.115	0.140	2.48	63.1	5810	8660	435
MPGC500-8KV	500 MCM	37	4/0	8	0.115	0.140	2.82	71.8	8060	12020	536

(1) Ampacity – Free air measured; Based on continuous duty at 90°C conductor temperature

### STANDARD PRINT LEGEND:

TELE-FONIKA 8000V (SIZE) GROUNDED MP-GC P-7K-254064-MSHA

