

# TYPE MP-GC 3/c 5kV 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 an essentially 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 5kV XLP/PVC

## UL TYPE MP-GC – 5000 VOLTS – 100% and 133% 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
MPGC4-5KV	4	7	8	8	0.090	0.110	1.39	35.4	1290	1920	122
MPGC2-5KV	2	7	6	8	0.090	0.110	1.51	38.3	1620	2410	159
MPGC1-5KV	1	19	5	8	0.090	0.110	1.59	40.4	1880	2800	184
MPGC1/0-5KV	1/0	19	4	8	0.090	0.110	1.67	42.5	2190	3270	211
MPGC2/0-5KV	2/0	19	3	8	0.090	0.110	1.81	46.0	2660	3970	243
MPGC3/0-5KV	3/0	19	2	8	0.090	0.140	1.93	49.0	3170	4720	279
MPGC4/0-5KV	4/0	37	1	8	0.090	0.140	2.06	52.3	3760	5600	321
MPGC250-5KV	250	37	1/0	8	0.090	0.140	2.14	54.4	4300	6410	355
MPGC350-5KV	350	37	2/0	8	0.090	0.140	2.36	60.0	5600	8350	435
MPGC500-5KV	500	37	4/0	8	0.090	0.140	2.71	68.7	7860	11710	536

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

### STANDARD PRINT LEGEND:

TELE-FONIKA 5000V (SIZE) GROUNDED MP-GC P-7K-254064-MSHA

