MP-GC XLPE/PVC

15000 V

ICEA S-75-381/NEMA WC58, MSHA: No 7K-254064-01

Mine Power Feeder Cable, Mining grade

APPLICATIONS

- Boreholes
- Shafts
- Horizontal runs in underground entries
- In aerial installtions, ducts or direct burial
- Other semi-permanent and permanent mining and industrial feeder installations

CONSTRUCTION

Conductors	Copper, Class B, concentric lay stranded, compressed ASTM B8
Conductor shield	Extruded layer of semi-conducting cross-linkable compound applied under simultaneous triple extrusion process over conductor.
Insulation	Extruded layer of XLPE applied over conductor screen under triple extrusion process
Insulation shield	Extruded layer of semi-conducting cross-linkable compound applied by triple extrusion process over the insulation
Metallic screen	Copper tapes with a minimum 10% overlap
Grounding conductor	Bare copper Class B
Ground check	Bare copper Class B with insulation
Assembly	Three power conductors, two grounding conductors, one ground-check conductor with fillers cabled together. Binder tape applied overall
Outer jacket	Extruded layer of black sun-resistance PVC

MP-GC XLPE/PVC

Features

Maximum conductor operating temperature +90°C	Lowest ambient temperature for mixed installation -40°C
Maximum conductor emergency overload temperature +130°C	Lowest installation temperature -5°C
Maximum short-circuit conductor temperature +250°C	Minimum bending radius 12xD (D-overall diameter of cable)

Approvals

MSHA:	No 7K-254064-01
Standard length cable packing	1000ft on drums. Other forms of packing and delivery are available on request

15000 V – 100% insulation level

Selection Data

Cond. Size	Cond. Strand	Cond. Size		Nominal Insulation Thickness		Nominal Jacket Thickness		Approx. O.D.		Approx. Weight		Ampacity(1) 40°C Ambient Temp
		GRD	GC									
AWG/MCM	**No.**	**AWG**		**Inches**	**mm**	**Inches**	**mm**	**Inches**	**mm**	**Lbs./1kft.**	**kg/km**	**A**
2AWG	7	6	8	0.175	4.45	0.140	3.56	1.92	48.8	2 100	3 130	164
1AWG	19	5	8	0.175	4.45	0.140	3.56	2.03	51.7	2 470	3 680	187
1/0AWG	19	4	8	0.175	4.45	0.140	3.56	2.12	53.8	2 800	4 170	215
2/0AWG	19	3	8	0.175	4.45	0.140	3.56	2.20	55.9	3 190	4 760	246
3/0AWG	19	2	8	0.175	4.45	0.140	3.56	2.54	64.5	3 710	5 530	283
4/0AWG	37	1	8	0.175	4.45	0.140	3.56	2.60	66.0	4 310	6 430	325
250MCM	37	1/0	8	0.175	4.45	0.140	3.56	2.70	68.6	4 940	7 370	359
350MCM	37	2/0	8	0.175	4.45	0.140	3.56	2.85	72.4	6 250	9 320	438
500MCM	37	4/0	8	0.175	4.45	0.140	3.56	3.10	78.7	8 600	12 810	540

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

All the information in this document – including tables and diagrams – is given in good faith and believed to be correct at the time of publication. The information does not constitute a warranty nor representation for which TELE-FONIKA Kable assumes legal responsibility. TELE-FONIKA Kable reserves rights to introduce changes to the document at any time