



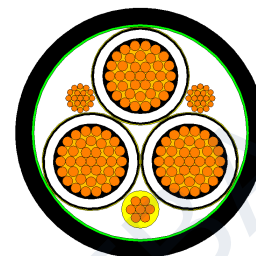
TEBAOFLEX CABLE

DATA SHEET

Mining&Industrial cable

TYPE MP-GC

5 kV to 15 kV three-conductor mine power feeder cable



APPLICATION

Medium-voltage MP-GC 3/C feeder cable for fixed and non-flexing horizontal or vertical links between units of underground and surface mine power distribution systems. Suitable for mine tunnels, shafts, load centres, open pits, ducts, conduit, trough, tray, open-air and direct-buried installations in wet or dry locations. The cable includes grounding conductors and an internal ground-check conductor for monitored 5 kV to 15 kV power circuits.

CONSTRUCTION

Component	Description
Power conductors	Three annealed bare copper conductors; compact or concentric-lay stranding according to applicable ASTM requirements
Conductor shield	Extruded thermosetting semi-conducting stress-control layer over each power conductor
Insulation	Cross-linked polyethylene (XLPE) with free-stripping extruded semi-conducting insulation shield
Phase identification and screen	Black, white and red marker strips beneath overlapped annealed copper-tape insulation screens
Grounding conductors	Two bare annealed copper grounding conductors, Class B strand
Ground-check conductor	Annealed copper Class B strand with yellow polypropylene or equivalent yellow insulation
Outer jacket	Heavy-duty polyvinyl chloride (PVC) jacket for fixed/non-flexing feeder service
Installation	Suitable for horizontal, vertical, duct, conduit, trough, tray, open-air or direct-buried installation

CHARACTERISTICS

- Three-conductor MP-GC feeder cable for fixed and non-flexing high-voltage mining distribution.
- XLPE insulation provides high dielectric strength and stable electrical performance from 5 kV to 15 kV.
- PVC outer jacket provides resistance to moisture, oil, chemicals, tearing, puncture and abrasion.
- Integrated grounding and ground-check conductors support monitored mining circuits.
- Minimum bending radius: 12 x cable overall diameter.
- Operating range for the high-voltage application: -20 to +90 deg C.

TECHNICAL INFORMATION

Parameter	Unit	Value
Rated voltage range	kV	5 to 15
Insulation system		XLPE with extruded semi-conducting insulation shield
Outer jacket		PVC
Maximum conductor temperature	°C	+90
Minimum bending radius		12 x overall diameter
Primary cable standard		ICEA S-75-381 / NEMA WC 58
Conductor standards		ASTM B3; ASTM B8; ASTM B496
Canadian standard		CAN/CSA-C22.2 No. 96

TECHNICAL DATA

DIMENSIONS, WEIGHT AND AMPACITY

Nominal construction dimensions, cable weight and current-carrying capacity from the supplied Word tables.

Construction cores x AWG/kcmil	Strands	Grounding AWG/kcmil	Ground-check AWG/kcmil	Insulation in / mm	Jacket in / mm	Overall diameter in / mm	Weight lb/kft / kg/km	Ampacity A
TYPE MP-GC 3C - 5-15 kV XLPE/PVC								
3 x 6	7	10	8	0.090 / 2.3	0.110 / 2.8	1.30 / 33.0	1060 / 1577	93
3 x 4	7	8	8	0.090 / 2.3	0.110 / 2.8	1.41 / 35.8	1441 / 2144	122
3 x 2	7	6	8	0.090 / 2.3	0.110 / 2.8	1.47 / 37.3	1827 / 2718	159
3 x 1	19	5	8	0.090 / 2.3	0.110 / 2.8	1.54 / 39.1	2168 / 3226	184
3 x 1/0	19	4	8	0.090 / 2.3	0.110 / 2.8	1.63 / 41.4	2602 / 3871	211
3 x 2/0	19	3	8	0.090 / 2.3	0.110 / 2.8	1.72 / 43.7	3010 / 4478	243
3 x 3/0	19	2	8	0.090 / 2.3	0.140 / 3.6	1.89 / 48.0	3265 / 4859	279
3 x 4/0	19	1	8	0.090 / 2.3	0.140 / 3.6	2.01 / 51.0	4190 / 6234	321
3 x 250	37	1/0	8	0.090 / 2.3	0.140 / 3.6	2.10 / 53.3	4825 / 7179	355
3 x 350	37	2/0	8	0.090 / 2.3	0.140 / 3.6	2.31 / 58.7	6062 / 9019	435
3 x 500	37	4/0	8	0.090 / 2.3	0.140 / 3.6	2.59 / 65.8	8427 / 12538	536

NOTES

- All imperial and metric values are reproduced from the corresponding Word specification table.
 - Dimensional and ampacity values are reproduced from the supplied specification table.
- The XLPE/PVC construction is intended for fixed or non-flexing feeder links.
 - Final selection must consider voltage, installation method, ambient conditions and applicable regulations.

CERTIFICATIONS

