

MPF-GC 5 kV, 8 kV or 15 kV

Product Description

Mine power feeder
EPR insulation
Thermoset jacket
90°C shielded

Applications

Suitable for installation in boreholes, shafts, horizontal runs in underground tunnels, aerial suspension on insulators and other semi-permanent mining and industrial feeder installations.

Specifications

- CONDUCTOR*: Class B stranded bare copper, an extruded semi-conducting compound is applied over the conductor
- INSULATION: Ethylene Propylene Rubber (EPR) per ICEA S-75-381 (NEMA WC58)
- SHIELD: An extruded semi-conducting compound is applied over the insulation, a flat copper tape is helically applied
- COLOR CODE: Either printing or marker tapes applied under the copper tape, (black, white and red)
- ASSEMBLY: Insulated conductors, two tinned Class B stranded uninsulated ground wires, yellow insulated ground check wire and fillers are assembled with an overall polyester tape
- OVERALL JACKET: Thermoset compound per ICEA S-75-381
- STANDARDS: Meets the requirements of ICEA S-75-381, accepted by MSHA and marked with the manufacturer's P number
- AMPACITY: Based on an ambient temperature of 40°C per ICEA S-75-381, Table H-1
- TEMPERATURE: 90°C
- VOLTAGE: 5 kV, 8 kV and 15 kV

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5 kV

Diameters and weights may vary among manufacturers.

Part No.	Conductor Size AWG/kcmil	No. of Strands	Insulation Thickness (in.)	Overall Jacket Thickness (in.)	Ground Wire Size AWG	Nom. O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
5P-0605	6	7	0.090	0.110	10	1.300	1,060	93
5P-0405	4	7	0.090	0.110	8	1.410	1,325	122
5P-0205	2	7	0.090	0.110	6	1.470	1,651	159
5P-0105	1	7	0.090	0.110	5	1.540	1,918	184
5P-1005	1/0	19	0.090	0.110	4	1.630	2,244	211
5P-2005	2/0	19	0.090	0.140	3	1.720	2,644	243
5P-3005	3/0	19	0.090	0.140	2	1.890	3,265	279
5P-4005	4/0	19	0.090	0.140	1	2.010	3,890	321
5P-2505	250	37	0.090	0.140	1/0	2.100	4,474	355
5P-3505	350	37	0.090	0.140	2/0	2.310	5,765	435
5P-5005	500	37	0.090	0.140	4/0	2.590	7,906	536

8 kV

Diameters and weights may vary among manufacturers.

Part No.	Conductor Size AWG/kcmil	No. of Strands	Insulation Thickness (in.)	Overall Jacket Thickness (in.)	Ground Wire Size AWG	Nom. O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
5P-0608	6	7	0.115	0.110	10	1.410	1,175	93
5P-0408	4	7	0.115	0.110	8	1.520	1,455	122
5P-0208	2	7	0.115	0.110	6	1.580	1,787	159
5P-0108	1	19	0.115	0.110	5	1.660	2,059	184
5P-1008	1/0	19	0.115	0.110	4	1.740	2,378	211
5P-2008	2/0	19	0.115	0.140	3	1.900	2,912	243
5P-3008	3/0	19	0.115	0.140	2	2.000	3,432	265
5P-4008	4/0	19	0.115	0.140	1	2.120	4,056	310
5P-2508	250	37	0.115	0.140	1/0	2.220	4,647	355
5P-3508	350	37	0.115	0.140	2/0	2.430	5,979	435
5P-5008	500	37	0.115	0.140	4/0	2.700	8,150	536

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15 kV

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Part No.	Conductor Size AWG/kcmil	No. of Strands	Insulation Thickness (in.)	Overall Jacket Thickness (in.)	Ground Wire Size AWG	Nom. O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
5P-0215	2	7	0.175	0.140	6	1.900	2,248	164
5P-0115	1	19	0.175	0.140	5	1.990	2,552	187
5P-1015	1/0	19	0.175	0.140	4	2.070	2,901	215
5P-2015	2/0	19	0.175	0.140	3	2.160	3,341	246
5P-3015	3/0	19	0.175	0.140	2	2.270	3,878	283
5P-4015	4/0	19	0.175	0.140	1	2.390	4,541	325
5P-25015	250	37	0.175	0.140	1/0	2.480	5,145	359
5P-35015	350	37	0.175	0.140	2/0	2.700	6,517	438
5P-50015	500	37	0.175	0.170	4/0	3.080	9,058	536

Conductor color code chart

Number of Conductors	Cable Types	Color Identification	Number of Conductors	Cable Types	Color Identification
2	All	Black, White	4	G Round	Black, White, Red, Orange
3	G or G-GC Round or Flat	Black, White, Red	4	W Round	Black, White, Red, Green
3	SHD-GC	Black, White, Red	5	W Round	Black, White, Red, Green, Orange
3	W Round and Flat	Flat Black, White, Green	Ground Check Conductor	SHD-GC, GGC and MPF-GC	Yellow

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