



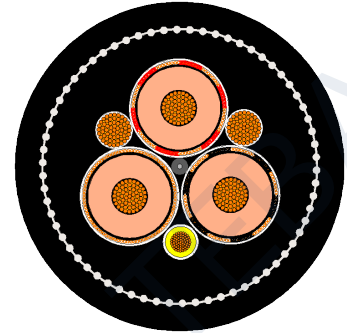
TEBAOFLEX CABLE

DATA SHEET

Mining&Industrial cable

TYPE SHD-GC 3/C 8000 V CPE CABLE

Heavy-duty portable mining power cable



APPLICATION

For heavy-duty high-voltage portable power cable for draglines, loading shovels, dredges, drills and power feeders in circuits not exceeding 8,000 volts.

CONSTRUCTION

Parameter	Value
Conductor	Flexible tinned copper
Insulation	90 deg C ethylene-propylene rubber (EPR)
Shielding	Tinned copper and color-coded nylon braid
Ground wires	Flexible tinned copper
Ground check	Flexible tinned copper with yellow polypropylene insulation
Jacket	Reinforced mold-cured thermosetting chlorinated polyethylene (CPE) jacket

CABLE CHARACTERISTICS

Parameter	Value
Design standard	ICEA S-75-381 / NEMA WC-58
Rated voltage	8000 V
Maximum conductor temperature	90 deg C continuous
Cable construction	Three power conductors, grounding conductors and a ground check conductor with metallic shielding

TECHNICAL DATA

Complete nominal dimensional data. Source ordering codes have been omitted.

POWER CONDUCTOR AND CABLE DIMENSIONS							
Power conductor AWG/kcmil	Area AWG/kcmil mm2	Nearest standard metric mm2	No. of wires per conductor	Insulation thickness mils	Jacket thickness mils	Nominal outside dimensions in.	Approx. weight lbs/1000 ft
4	0.52	0.50	259	150	205	1.94	2180
2	0.82	1.00	259	150	220	2.12	2830
1	1.31	1.50	259	150	220	2.21	3350
1/0	2.08	2.50	266	150	220	2.32	3590
2/0	3.31	4	323	150	235	2.46	4190
3/0	5.26	6	418	150	250	2.62	5075
4/0	8.37	10	532	150	250	2.75	5660
250	13.30	16	627	150	250	2.89	6740
350	21.15	25	888	150	280	3.20	8460
500	33.62	35	1221	150	295	3.56	10700

GROUND CHECK CONDUCTOR		
Ground check AWG	Area mm2	No. of wires per conductor
8	0.52	133
6	0.82	133
5	1.31	133
4	2.08	259
3	3.31	259
2	5.26	259
1	8.37	259
1/0	13.30	266
2/0	21.15	323
4/0	33.62	532

TECHNICAL DATA

Complete nominal dimensional data. Source ordering codes have been omitted.

AMPACITY	
Power conductor AWG/kcmil	Ampacity at 40 deg C ambient, A
4	122
2	159
1	184
1/0	211
2/0	243
3/0	279
4/0	321
250	355
350	435
500	536

NOTES

Nominal values are for cable selection. Actual cable dimensions may vary due to manufacturing tolerances.

CERTIFICATIONS

