



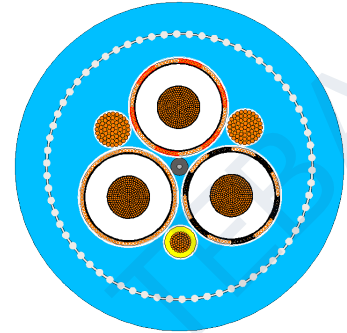
TEBAOFLEX CABLE

DATA SHEET

Mining&Industrial cable

TYPE SHD-GC 3/C 5000 V TPU CABLE

Heavy-duty portable mining power cable



APPLICATION

For heavy-duty portable power circuits not exceeding 5,000 volts, including longwall shearers, continuous miners, shovels, dredges, drills and mobile equipment.

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	Thermoplastic polyurethane (TPU) jacket

CABLE CHARACTERISTICS

Parameter	Value
Design standard	ICEA S-75-381 / NEMA WC-58
Rated voltage	5000 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
6	0.35	0.50	133	110	185	1.56	1342
4	0.52	0.50	259	110	185	1.68	1629
2	0.82	1.00	259	110	205	1.87	2228
1	1.31	1.50	259	110	205	1.95	2447
1/0	2.08	2.50	266	110	220	2.08	2760
2/0	3.31	4	323	110	220	2.20	3238
3/0	5.26	6	418	110	235	2.36	3792
4/0	8.37	10	532	110	235	2.50	4548
250	13.30	16	627	120	250	2.69	5427
350	21.15	25	888	120	265	2.95	7070
500	33.62	35	1221	120	280	3.31	9407

GROUND CHECK CONDUCTOR		
Ground check AWG	Area mm2	No. of wires per conductor
10	0.35	49
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
6	93
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

