



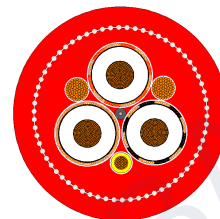
TEBAOFLEX CABLE

DATA SHEET

Mining&Industrial cable

SHD-GC

25 kV three-conductor portable power cable, TPU jacket



APPLICATION

Heavy-duty 25 kV portable power cable for longwall shearers, continuous miners and mobile mining equipment such as shovels, dredges and drills. Designed for demanding medium-voltage power connections requiring flexible tinned copper conductors, EPR insulation, grounding and ground-check conductors, and a durable TPU jacket.

CONSTRUCTION

Component	Description
Conductor	Stranded annealed tinned copper conductor
Conductor shield	Conductive layer
Insulation	Ethylene-propylene rubber (EPR)
Insulation shield	Conductive tape with tinned copper/textile braid
Ground check conductor	Tinned copper conductor with yellow polypropylene insulation
Grounding conductor	Tinned copper conductor
Outer jacket	Thermoplastic polyurethane (TPU), black

CHARACTERISTICS

- Heavy-duty three-conductor portable power cable for mining equipment.
- Thermoplastic polyurethane (TPU) outer jacket.
- Minimum bending radius: 8 x overall diameter.
- Maximum conductor operating temperature: +90 deg C.
- TPU jacket selected for this product version.

TECHNICAL INFORMATION

Parameter	Unit	Value
Rated voltage	kV	25
Primary standard		ICEA S-75-381 / NEMA WC 58
Conductor standards		ASTM B 172; ASTM B 33
Canadian standard		CAN/CSA-C22.2 No. 96
Minimum bending radius		8 x overall diameter
Maximum conductor temperature	°C	+90

TECHNICAL DATA

DIMENSIONS, WEIGHT AND AMPACITY

Nominal construction dimensions, cable weight and current-carrying capacity.

Construction cores x AWG/kcmil	Strands	Grounding / ground check AWG/kcmil	Insulation in / mm	Jacket in / mm	Overall diameter in / mm	Weight lb/kft / kg/km	Ampacity A
SHD-GC 25 kV							
3 x 1	259	5 / 8	0.260 / 6.6	0.265 / 6.7	2.95 / 74.9	5290 / 7872	191
3 x 1/0	259	4 / 8	0.260 / 6.6	0.265 / 6.7	3.05 / 77.5	5800 / 8631	218
3 x 2/0	329	3 / 8	0.260 / 6.6	0.280 / 7.1	3.20 / 81.3	6515 / 9695	249
3 x 3/0	413	2 / 8	0.260 / 6.6	0.280 / 7.1	3.33 / 84.6	7215 / 10737	286
3 x 4/0	532	1 / 8	0.260 / 6.6	0.295 / 7.5	3.50 / 88.9	8250 / 12277	327

NOTES

- Dimensions and weights are shown in the source imperial and metric units.
- Ampacity is based on 90 deg C conductor temperature and 40 deg C ambient air per ICEA S-75-381.

CERTIFICATIONS

