SHD-GC 15kV TPU CLR RST CSA

Based on: CSA C22.2 No. 96

Round portable power cable
Mining grade





CONSTRUCTION	
Conductors	Soft drawn flexible stranded tinned copper wires
Conductor shield	Semi-conducting layer over the conductor
Insulation	Ethylene-propylene rubber (EPR)
Insulation shield	Semi-conducting tape + composite tinned copper/polyamide braid. Covering minimum 60%.
Circuit identification	The polyamide in the shielding braid is coloured black, blue, red
Grounding	Soft drawn flexible stranded tinned copper wires
Ground check	Yellow PP insulated soft drawn flexible stranded tinned copper wires
Assembly	Three power, ground check and two non-insulated grounding conductors cabled together to form a round cable core
Core binder	orange/silver reflective tape applied over core
Outer jacket	Extra heavy duty, integral-filled, TPU jacket
Colour of outer jacket	Clear
Minimum bending radius	Eight times overall diameter of the cable

FEATURES

- Excellent flexibility
- Highly ozone, sun, weather and flame resistant
- Rated at -40ºC
- Excellent impact and abrasion resistant
- Oil and heat resistant
- Ink jet printed for easy identification

APPLICATIONS

- Use on AC off track equipment such as long wall miners loaders, drills, shovels, conveyors, pumps and mobile equipment requiring grounding conductors and a ground check conductor and metallic shielding overall.
- Other industrial, mining applications

APPROVALS

- MSHA: P-07-KA190002

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Standard length cable packing	1000ft on drums. Other forms of packing and delivery are available on request

Selection Data

Cond. Size	Cond. Strand	Cond. Size		Nominal Insulation Thickness		Nominal Jacket Thickness		Approx. O.D.		Approx. Weight		Maximum Tensile Force
		GRD	GC									
AWG/MCM	No.	AWG		Inches	mm	Inches	mm	Inches	mm	Lbs./1kft.	kg/km	N
1	259	5	8	0.210	5.33	0.141	3.58	2.28	57.9	2985	4443	1900

Electrical parameters

Power-Grounding Conductor Size	Power Conductor Resistance at 25 ^{0}C	Grounding Conductor Resistance at 25^{0}C	Ground-check Conductor Resistance at 25^{0}C	Inductance per unit length	Operating Capacitance per unit length	Permissible short-circuit Current (1s) (2)	Ampacity(1) 40^{0}C Ambient Temp
MCM	Ω/1000Ft	Ω/1000Ft	Ω/1000Ft	mH/1000Ft	µF/1000Ft	kA	A
1 AWG	0.137	0.346	0.679	0.126	0.07	6.06	187

(1) Ampacity –Based on continuous duty at 90^{0}C conductor temperature
(2) Short-circuit current (1s) – Based on conductor temperature from 90 ^{0}C up to 250 ^{0}C

STANDARD PRINT LEGEND:
TF CABLE (VOLTAGE)(SIZE) TYPE SHD-GC FT1 FT5 (-40 ^{0}C) +90 ^{0}C MSHA: P-07-KA190002

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