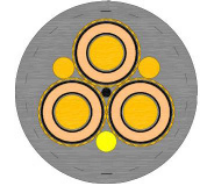
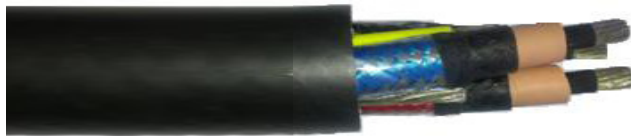


ALL-TEMP INDUSTRITE® Type SHD-GC: 5, 8, and 15 kV

90°C to -50°C / 6 AWG – 500 MCM / EHD – Extra Heavy Duty Thermoset Jacket



Application

ALL-TEMP INDUSTRITE® Type SHD-GC Mining Cable is designed and manufactured in medium voltage applications as a heavy-duty trailing cable on mining equipment where flame, abrasion, chemicals, moisture, impact, tearing and temperature extremes are part of the work environment. These cables are manufactured to resist harsh environments without compromising safety.

Specifications and Ratings

- Rated for continuous operation at -50° C to 90° C
- ICEA S-75-381/NEMA WC-58: Portable and Power Feeder Cables for Use in Mines & Similar Applications
- C22.2 No. 96
- CSA 231593 Listed
- MSHA approved No. 7K-270089



Construction Options

Consult the factory for ALL TEMP™ SHD-GC cables designed and manufactured in a variety of alternative constructions for specific applications.

Options include:

- Composite constructions incorporating optical fiber (Multimode or single-mode) for voice, data and video transmission.
- Alternative jacketing materials and colors formulated to provide superior service life in the world's harshest environments.

Design Parameters

CONDUCTORS: Extra flexible rope stranding, soft drawn tinned copper; per ASTM B3, ASTM B172, and UL 1072 for high flexibility, extended flex-life, reduced copper fatigue/conductor breakage.

CONDUCTOR SHIELD: Combination semi-conducting tape and/or extruded semi conductive thermosetting material.

INSULATION: Thermoset EPR insulation that meets and exceeds the requirements of ANSI/NEMA WC58 ICEA S-75-381 and UL 1072 for excellent physical/ electrical properties, suitable for use in extreme flexing applications.

SHIELD: Combination semi-conducting tape and mix-braid copper shield applied for maximum flexibility and provides corona-free shielding method, higher conductivity and improved personnel safety.

JACKET: Black, low-temp, co-extruded, reinforced, extra heavy duty thermoset jacket which is flame, oil and sunlight resistant and is suitable for use indoors and outdoors in severe flexing applications where oil, chemicals and extreme temperatures are considerations.

IDENTIFICATION: DRAKA MA [Part Number] [conductor size] / {number conductor} COND ICEA S-75-381 TYPE SHD-GC [voltage] V 90C P-7K-270089-MSHA CSA 231593 FT1 AND FT5 (-5

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Draka

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ALL-TEMP INDUSTRIRITE® Type SHD-GC: 5, 8, and 15kV

90°C to -50°C / 6 AWG – 500 MCM / EHD – Extra Heavy Duty Thermoset Jacket

Power Conductor Size (Stranding)	Ground Conductor Size (Stranding)	Ground- Check Conductor Size (Stranding)	Nominal Insulation Thickness in (mm)	Nominal Jacket Thickness in (mm)	Nominal Cable OD in (mm)	Approximate Cable Weight Lbs/Mft (Kg/Km)	Ampacity ¹
3 Conductor / 5 kV (100% insulation level)							
6 AWG (133)	10 AWG (49)	8 AWG (133)	110(2.8)	185 (4.7)	1.56(39.6)	1653(2460)	93
4 AWG (259)	8 AWG (133)	8 AWG (133)	110(2.8)	185 (4.7)	1.68 (42.7)	2008(2988)	122
2 AWG (259)	6 AWG (133)	8 AWG (133)	110(2.8)	205 (5.2)	1.87 (47.5)	2591(3855)	159
1 AWG (259)	5 AWG (133)	8 AWG (133)	110(2.8)	205 (5.2)	1.95 (49.5)	2968(4416)	184
1/0 AWG (266)	4 AWG (259)	8 AWG (133)	110(2.8)	220 (5.6)	2.08 (52.8)	3423(5093)	211
2/0 AWG (323)	3 AWG (259)	8 AWG (133)	110(2.8)	220 (5.6)	2.20 (55.9)	4028(5994)	243
3/0 AWG (418)	2 AWG (259)	8 AWG (133)	110(2.8)	235 (6.0)	2.36 (59.9)	4743 (7058)	279
4/0 AWG (532)	1 AWG (259)	8 AWG (133)	110(2.8)	235 (6.0)	2.50 (63.5)	5580 (8303)	321
250 MCM (627)	1/0 AWG (266)	6 AWG (133)	120 (3.0)	250 (6.4)	2.69 (68.3)	6471 (9629)	355
350 MCM (888)	2/0 AWG (323)	6 AWG (133)	120 (3.0)	265 (6.7)	2.95 (74.9)	8262 (12294)	435
500 MCM (1221)	4/0 AWG (532)	6 AWG (133)	120 (3.0)	280 (7.1)	3.31 (84.1)	11039 (16426)	536
3 Conductor / 8kV (100% insulation level)							
4 AWG (259)	8 AWG (133)	8 AWG (133)	150(3.8)	205 (5.2)	1.94 (49.3)	2311 (3439)	122
2 AWG (259)	6 AWG (133)	8 AWG (133)	150(3.8)	220 (5.6)	2.12 (53.8)	2999 (4463)	159
1 AWG (259)	5 AWG (133)	8 AWG (133)	150(3.8)	220 (5.6)	2.21 (56.1)	3551 (5284)	184
1/0 AWG (266)	4 AWG (259)	8 AWG (133)	150 (3.8)	220 (5.6)	2.32 (58.9)	3805 (5662)	211
2/0 AWG (323)	3 AWG (259)	8 AWG (133)	150(3.8)	235 (6.0)	2.46 (62.5)	4441 (6608)	243
3/0 AWG (418)	2 AWG (259)	8 AWG (133)	150(3.8)	250(6.4)	2.62 (66.5)	5379 (8004)	279
4/0 AWG (532)	1 AWG (259)	8 AWG (133)	150(3.8)	250(6.4)	2.75 (69.9)	5999 (8927)	321
250 MCM (627)	1/0 AWG (266)	6 AWG (133)	150(3.8)	250(6.4)	2.89 (73.4)	7144 (10630)	355
350 MCM (888)	2/0 AWG (323)	6 AWG (133)	150(3.8)	280(7.1)	3.21 (81.5)	8967 (13343)	435
500 MCM (1221)	4/0 AWG (532)	6 AWG (133)	150(3.8)	295(7.5)	3.56 (90.4)	11341 (16875)	536
3 Conductor / 15 kV (100% insulation level)							
2 AWG (259)	6 AWG (133)	8 AWG (133)	210 (5.3)	235 (6.0)	2.41 (61.2)	3710 (5520)	164
1 AWG (259)	5 AWG (133)	8 AWG (133)	210(5.3)	235 (6.0)	2.52 (64)	4324 (6434)	187
1/0 AWG (259)	4 AWG (259)	8 AWG (133)	210(5.3)	250 (6.4)	2.64 (67.1)	4886(7270)	215
2/0 AWG (329)	3 AWG (259)	8 AWG (133)	210(5.3)	250(6.4)	2.73 (69.3)	5183 (7712)	246
3/0 AWG (413)	2 AWG (259)	8 AWG (133)	210(5.3)	265 (6.7)	2.90 (73.7)	5924 (8815)	283
4/0 AWG (532)	1 AWG (259)	8 AWG (133)	210(5.3)	265 (6.7)	3.05 (77.5)	7228 (10755)	325
250 MCM (608)	1/0 AWG (266)	6 AWG (133)	210(5.3)	265 (6.7)	3.13 (79.5)	7377 (10977)	359
350 MCM(851)	2/0 AWG (323)	6 AWG (133)	210(5.3)	280 (7.1)	3.42 (87)	9675 (14396)	437
500 MCM (1221)	4/0 AWG (532)	6 AWG (133)	210(5.3)	280 (7.1)	3.69 (93.6)	11680 (17380)	534

¹ Ampacity based on single cable in free air 30°C ambient, 90°C conductor temperature.
Standard Jacket Color: Black. Alternative Color Options Available upon request.
The data herein is approximate and subject to normal manufacturing tolerances -5%/+8%.

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