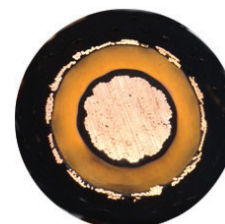




ALL-TEMP INDUSTRITE® Type SH: Flexible Power Cable for Mobile Substations

MEDIUM VOLTAGE SINGLE CONDUCTOR - 5000 TO 25000 VOLTS - 90°C



Applications



Belt Conveyor and
Fixed Installation



Cable Booms

This ALL-TEMP INDUSTRITE® Cables In general are used in short length for connection of switch gear cubicles and for connection of mobile transformer substations to the overhead lines. While handling and during operation care should be taken to protect the cables against excessive mechanical stresses.

Specifications and Ratings

- Rated for continuous operation at -40° 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. 96-13 Portable Power Cables
- MSHA approved



Optional

- Cold Temperature Thermoset Jacket Compound for -50°C rating
- 35 KV Design Available
- UL 1072 (MV90) Approval
- Polyurethane (TPU), Hypalon™ (CSPE) Jackets Available

* Hypalon is a Trademark of DuPont

Available Jacket Colors



Accessories and Terminations

- ELASPEED® Medium Voltage Cold-Shrink Terminations
- Elbows



Design Parameters

CONDUCTOR: Extra flexible rope stranding, soft drawn tinned copper; per ASTM B33, ASTM B172, and ASTM B173 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: Semi-conductive tape applied helically over insulation Braided copper shield applied for maximum flexibility and provides corona-free shielding method, higher conductivity and improved personnel safety. Designs with voltage higher or equal to 25KV also include a extruded insulation shield.

JACKET: Black, co-extruded, reinforced, EHD (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 SH [voltage] V 90C P-7K-270089-MSHA CSA 231593 FT1 AND FT5 (-40C)

Prysmian Group

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ALL-TEMP INDUSTRITE® Type SH: Flexible Power Cable for Mobile Substations

Medium Voltage Single Conductor - 5000 to 25000 Volts - 90°C

Part Number	Conductor Size	Nominal Insulation Thickness in (mm)	Nominal Jacket Thickness in (mm)	Nominal Outside Diameter in (mm)	Approximate Cable Weight Lbs/Mft (Kg/Km)	Ampacity ¹
1 Conductor / 5 kV (100% insulation level)						
033900	6 AWG (133)	0.110 (2.79)	0.110 (2.79)	0.77 (19.6)	412 (614)	112
033901	4 AWG (259)	0.110 (2.79)	0.110 (2.79)	0.82 (20.8)	500 (744)	148
033902	3 AWG (133)	0.110 (2.79)	0.110 (2.79)	0.85 (21.6)	539 (803)	171
033903	2 AWG (259)	0.110 (2.79)	0.125 (3.18)	0.92 (23.4)	641 (955)	195
033904	1 AWG (259)	0.110 (2.79)	0.125 (3.18)	0.96 (24.4)	726 (1081)	225
033905	1/0 AWG (266)	0.110 (2.79)	0.140 (3.56)	1.04 (26.4)	864 (1287)	260
033906	2/0 AWG (323)	0.110 (2.79)	0.140 (3.56)	1.07 (27.2)	958 (1427)	299
033907	3/0 AWG (418)	0.110 (2.79)	0.155 (3.94)	1.18 (30.0)	1194 (1778)	345
033908	4/0 AWG (532)	0.110 (2.79)	0.155 (3.94)	1.24 (31.5)	1356 (2020)	400
033909	250 MCM (627)	0.120 (3.05)	0.155 (3.94)	1.32 (33.5)	1609 (2397)	444
033910	300 MCM (735)	0.120 (3.05)	0.170 (4.32)	1.37 (34.8)	1853 (2760)	496
033911	350 MCM (888)	0.120 (3.05)	0.170 (4.32)	1.47 (37.3)	2007 (2990)	549
033912	500 MCM (1221)	0.12 (3.05)	0.190 (4.83)	1.62 (41.1)	2696 (4017)	688
1 Conductor / 8 kV (100% insulation level)						
033913	4 AWG (259)	0.150 (3.81)	0.125 (3.18)	0.97 (24.6)	601 (895)	148
033914	3 AWG (133)	0.150 (3.81)	0.140 (3.56)	1.03 (26.2)	672 (1002)	171
033915	2 AWG (259)	0.150 (3.81)	0.140 (3.56)	1.07 (27.2)	752 (1120)	195
033916	1 AWG (259)	0.150 (3.81)	0.140 (3.56)	1.12 (28.4)	842 (1254)	225
033917	1/0 AWG (266)	0.150 (3.81)	0.155 (3.94)	1.19 (30.2)	987 (1471)	260
033918	2/0 AWG (323)	0.150 (3.81)	0.155 (3.94)	1.24 (31.5)	1084 (1615)	299
033919	3/0 AWG (418)	0.150 (3.81)	0.155 (3.94)	1.3 (33.0)	1295 (1929)	345
033920	4/0 AWG (532)	0.150 (3.81)	0.155 (3.94)	1.37 (34.8)	1458 (2173)	400
033921	250 MCM (627)	0.150 (3.81)	0.170 (4.32)	1.45 (36.8)	1737 (2588)	444
033922	300 MCM (735)	0.150 (3.81)	0.170 (4.32)	1.52 (38.6)	1941 (2892)	496
033923	350 MCM (888)	0.150 (3.81)	0.170 (4.32)	1.57 (39.9)	2066 (3079)	549
033924	500 MCM (1221)	0.150 (3.81)	0.190 (4.83)	1.76 (44.7)	2799 (4170)	688

¹Ampacity based on single isolated cable in air operated with open-circuited shield, conductor temperature of 90°C and an ambient air temperature of 40°C.

Note:

- The data herein is approximate and subject to normal manufacturing tolerances.
- Information subject to change without notice

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Medium Voltage Single Conductor - 5000 to 25000 Volts - 90°C

Part Number	Conductor Size	Nominal Insulation Thickness in (mm)	Nominal Jacket Thickness in (mm)	Nominal Outside Diameter in (mm)	Approximate Cable Weight Lbs/Mft (Kg/Km)	Ampacity ¹
1 Conductor / 15 kV (100% insulation level)						
033925	2 AWG (259)	0.210 (5.33)	0.155 (3.94)	1.22 (31.0)	921 (1372)	195
033926	1 AWG (259)	0.210 (5.33)	0.155 (3.94)	1.26 (32.0)	1018 (1517)	225
033927	1/0 AWG (266)	0.210 (5.33)	0.155 (3.94)	1.31 (33.3)	1160 (1728)	259
033928	2/0 AWG (323)	0.210 (5.33)	0.155 (3.94)	1.36 (34.5)	1254 (1868)	298
033929	3/0 AWG (418)	0.210 (5.33)	0.170 (4.32)	1.46 (37.1)	1500 (2235)	343
033930	4/0 AWG (532)	0.210 (5.33)	0.170 (4.32)	1.52 (38.6)	1668 (2485)	397
033931	250 MCM (627)	0.210 (5.33)	0.170 (4.32)	1.57 (39.9)	1917 (2856)	440
033932	300 MCM (735)	0.210 (5.33)	0.170 (4.32)	1.64 (41.7)	2129 (3172)	491
033933	350 MCM (888)	0.210 (5.33)	0.190 (4.83)	1.73 (43.9)	2335 (3479)	543
033934	500 MCM (1221)	0.210 (5.33)	0.190 (4.83)	1.88 (47.8)	3013 (4489)	678
1 Conductor / 25 kV (100% insulation level)						
033935	1 AWG (259)	0.260 (6.60)	0.170 (4.32)	1.49 (37.8)	1296 (1931)	222
033936	1/0 AWG (266)	0.260 (6.60)	0.170 (4.32)	1.54 (39.1)	1419 (2115)	255
033937	2/0 AWG (323)	0.260 (6.60)	0.170 (4.32)	1.59 (40.4)	1526 (2273)	293
033938	3/0 AWG (418)	0.260 (6.60)	0.170 (4.32)	1.64 (41.7)	1769 (2636)	337
033939	4/0 AWG (532)	0.260 (6.60)	0.190 (4.83)	1.74 (44.2)	1968 (2932)	389
033940	250 MCM (627)	0.260 (6.60)	0.190 (4.83)	1.79 (45.5)	2274 (3389)	430
033941	300 MCM (735)	0.260 (6.60)	0.190 (4.83)	1.86 (47.2)	2499 (3724)	480
033942	350 MCM (888)	0.260 (6.60)	0.190 (4.83)	1.91 (48.5)	2660 (3964)	529
033943	500 MCM (1221)	0.260 (6.60)	0.205 (5.21)	2.10 (53.3)	3436 (5120)	659

¹Ampacity based on single isolated cable in air operated with open-circuited shield, conductor temperature of 90°C and an ambient air temperature of 40°C.

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