

APPLICATIONS

BOSTREEL™ ALL-TEMP Portable Power Reeling Cable is designed and manufactured for use in medium voltage reeling applications on container handling cranes, log handling cranes, stacker reclaimers, ship loaders and unloaders, and other similar material handling applications where flame, abrasion, chemicals, moisture, impact, tearing and temperature extremes are considerations.

BOSTREEL™ ALL-TEMP power reeling cables are manufactured to be resistant to the unique tension and torsional stresses common to high mounted cable reels and high travel speeds without compromising safe operation.

FEATURES AND BENEFITS

1. CONDUCTORS/GROUND/GROUND CHECK

Extra flexible rope stranding (Class K), soft drawn uncoated copper; per ASTM B3, ASTM B172, and UL 1072 for high flexibility, extended flex-life, reduced copper fatigue/conductor breakage.

2. INSULATION

Thermoset EPR insulation that meets and exceeds the requirements of ICEA S-68-516 and UL 1072 for excellent physical/electrical properties, suitable for use in extreme flexing applications.

3. SHIELD

Conductor shield, insulation and insulation shield applied as triple extrusion. Braided copper shield applied for maximum flexibility and provides corona-free shielding method, higher conductivity and improved personnel safety.

4. CABLING

Conductors are cabled without fillers or a separator allowing pressure extruded jacket to fill interstices to prohibit conductor displacement during flexing and high tension applications.

5. 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.

RATINGS

Rated for continuous operation from -40°C to 90°C.

UL listed MV-90

CSA listed

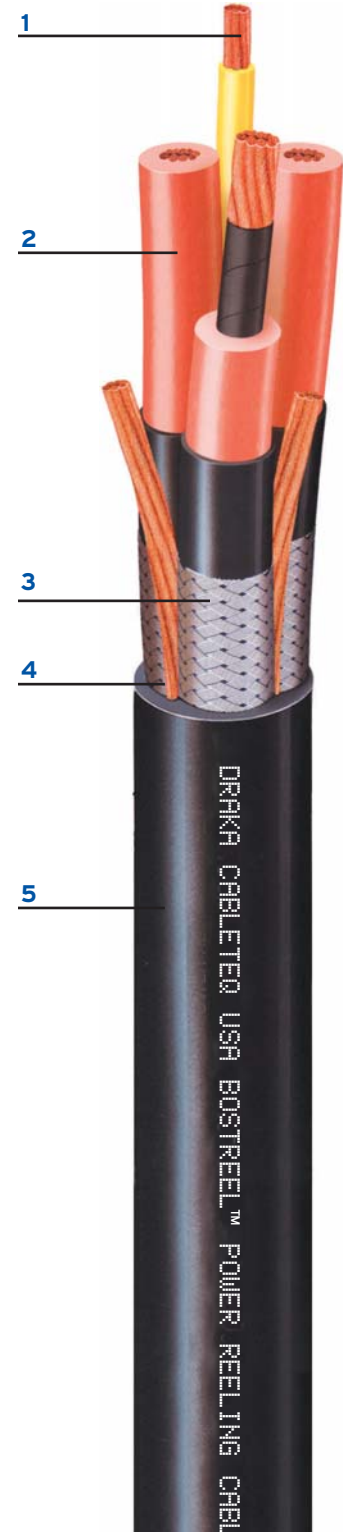
MSHA approved.

CONSTRUCTION OPTIONS

Consult the factory for BOSTREEL™ 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 formulated to provide superior service life in the world's harshest environments.





BOSTREEL™ POWER REELING CABLE

90° C TO -40° C

6 AWG - 500 KCMIL / thermoset jacket / 5, 8 and 15 KV

3 CONDUCTOR / 5 KV (100% INSULATION LEVEL)

Part Number	Power Conductor Size (Stranding)	Ground Conductors Size (Stranding)	Check Ground Size (Stranding)	Nominal Insulation Thickness in (mm)	Nominal Jacket Thickness in (mm)	Nominal Cable O.D. in (mm)	Ampacity ¹	Minimum Bend Diameter in (mm)	Approximate Cable Weight Lbs/Mft (Kg/Km)	Max. Safe Reeling Tension lbs (N)
028594	6 AWG (266/30)	8 AWG (168/30)	8 AWG (168/30)	0.11 (2.8)	0.185 (4.7)	1.75 (44.3)	87	42 (1.07)	1862 (2771)	182 (810)
028595	4 AWG (420/30)	8 AWG (168/30)	8 AWG (168/30)	0.11 (2.8)	0.185 (4.7)	1.85 (47.0)	115	44 (1.12)	2162 (3217)	289 (1285)
028596	2 AWG (665/30)	6 AWG (266/30)	8 AWG (168/30)	0.11 (2.8)	0.205 (5.2)	2.03 (51.6)	153	49 (1.24)	2740 (4077)	460 (2046)
028597	1 AWG (836/30)	5 AWG (336/30)	8 AWG (168/30)	0.11 (2.8)	0.205 (5.2)	2.16 (54.9)	175	52 (1.32)	3150 (4688)	580 (2580)
028598	1/0 AWG (1045/30)	4 AWG (420/30)	8 AWG (168/30)	0.11 (2.8)	0.220 (5.6)	2.33 (59.2)	203	56 (1.42)	3704 (5512)	731 (3252)
028599	2/0 AWG (1330/30)	3 AWG (532/30)	8 AWG (168/30)	0.11 (2.8)	0.220 (5.6)	2.36 (59.9)	236	57 (1.45)	4076 (6065)	922 (4101)
028600	3/0 AWG (1672/30)	2 AWG (665/30)	8 AWG (168/30)	0.11 (2.8)	0.235 (6.0)	2.46 (62.4)	274	59 (1.50)	4667 (6945)	1162 (5169)
028601	4/0 AWG (2107/30)	1 AWG (836/30)	8 AWG (168/30)	0.11 (2.8)	0.235 (6.0)	2.64 (67.1)	312	63 (1.60)	5432 (8083)	1466 (6521)
028602	250 kcmil (2499/30)	1/0 AWG (1045/30)	8 AWG (168/30)	0.12 (3.0)	0.250 (6.4)	2.98 (75.6)	351	71 (1.80)	7049 (10490)	1767 (7860)
028603	300 kcmil (2989/30)	1/0 AWG (1045/30)	8 AWG (168/30)	0.12 (3.0)	0.250 (6.4)	3.16 (80.3)	385	76 (1.93)	7556 (11244)	2121 (9435)
028604	350 kcmil (3458/30)	2/0 AWG (1330/30)	8 AWG (168/30)	0.12 (3.0)	0.265 (6.7)	3.28 (83.3)	433	79 (2.00)	8493 (12638)	2474 (11005)
028605	500 kcmil (5054/30)	4/0 AWG (2107/30)	8 AWG (168/30)	0.12 (3.0)	0.280 (7.1)	3.69 (93.7)	531	89 (2.26)	11346 (16884)	3534 (15720)

3 CONDUCTOR / 8 KV (100% INSULATION LEVEL)

028606	4 AWG (420/30)	8 AWG (168/30)	8 AWG (168/30)	0.15 (3.8)	0.205 (5.2)	2.07 (52.5)	131	50 (1.27)	2567 (3820)	289 (1285)
028607	2 AWG (665/30)	6 AWG (266/30)	8 AWG (168/30)	0.15 (3.8)	0.220 (5.6)	2.24 (56.8)	181	54 (1.37)	3160 (4702)	460 (2046)
028608	1 AWG (836/30)	5 AWG (336/30)	8 AWG (168/30)	0.15 (3.8)	0.220 (5.6)	2.36 (59.9)	203	57 (1.45)	3583 (5332)	580 (2580)
028609	1/0 AWG (1045/30)	4 AWG (420/30)	8 AWG (168/30)	0.15 (3.8)	0.220 (5.6)	2.51 (63.6)	236	60 (1.52)	4109 (6115)	731 (3252)
028610	2/0 AWG (1330/30)	3 AWG (532/30)	8 AWG (168/30)	0.15 (3.8)	0.235 (6.0)	2.57 (65.2)	268	62 (1.55)	4557 (6781)	922 (4101)
028611	3/0 AWG (1672/30)	2 AWG (665/30)	8 AWG (168/30)	0.15 (3.8)	0.250 (6.4)	2.66 (67.6)	312	64 (1.63)	5166 (7688)	1162 (5169)
028612	4/0 AWG (2107/30)	1 AWG (836/30)	8 AWG (168/30)	0.15 (3.8)	0.250 (6.4)	2.94 (74.7)	356	71 (1.80)	6220 (9256)	1466 (6521)

3 CONDUCTOR / 15 KV (100% INSULATION LEVEL)

028613	4 AWG (420/30)	8 AWG (168/30)	8 AWG (168/30)	0.21 (5.3)	0.235 (6.0)	2.38 (60.5)	131	57 (1.45)	3237 (4817)	289 (1285)
028614	2 AWG (665/30)	6 AWG (266/30)	8 AWG (168/30)	0.21 (5.3)	0.235 (6.0)	2.52 (64.0)	181	60 (1.52)	3808 (5667)	460 (2046)
028615	1 AWG (836/30)	5 AWG (336/30)	8 AWG (168/30)	0.21 (5.3)	0.235 (6.0)	2.65 (67.3)	203	64 (1.63)	4275 (6362)	580 (2580)
028616	1/0 AWG (1045/30)	4 AWG (420/30)	8 AWG (168/30)	0.21 (5.3)	0.250 (6.4)	2.82 (71.6)	236	68 (1.73)	4905 (7299)	731 (3252)
028617	2/0 AWG (1330/30)	3 AWG (532/30)	8 AWG (168/30)	0.21 (5.3)	0.250 (6.4)	2.85 (72.4)	268	68 (1.73)	5291 (7874)	922 (4101)
028618	3/0 AWG (1672/30)	2 AWG (665/30)	8 AWG (168/30)	0.21 (5.3)	0.265 (6.7)	2.99 (75.9)	312	72 (1.83)	6046 (8997)	1162 (5169)
028619	4/0 AWG (2107/30)	1 AWG (836/30)	8 AWG (168/30)	0.21 (5.3)	0.265 (6.7)	3.27 (83.2)	356	79 (2.00)	7198 (10711)	1466 (6521)

*Ampacity based on single cable in free air 30°C ambient, 90°C conductor temperature.

The data herein is approximate and subject to normal manufacturing tolerances. These specifications are subject to change without notice.