

## BOSTFLEX™ Control

Pendant & reel control cable / 90° C / 16 to 10 AWG / thermoset jacket / 600V



### Applications

BOSTFLEX™ Pendant and Reel Control Cable is designed and manufactured for use in continuous flexing applications where flame, abrasion, chemicals, moisture, impact, tearing, and temperature extremes are considerations.

Applications include portable control, festoon systems, power tracks, cable tenders, cranes and hoists, pendant push button stations, cable reels, retractable reels, automatic welders, transfer vehicles, and other abusive flexing applications. BOSTFLEX™ cables are suitable for use indoors or outdoors. For severe flexing applications below 10°C, specify BIW™ ALL-TEMP Industrite cable.

### Specifications and Ratings

- UL listed (E2517) Type SO, 600 volts, 90°C dry
- CSA certified (LL231593) Type SO, 90°C FT1
- MSHA approved



### Construction Options

Consult the factory for BOSTFLEX™ cables designed and manufactured in a variety of alternative constructions for specific applications.

Options include:

- Shielded pairs
- Fiber optic
- Overall shields
- Composite conductors

Note: The use of basket-weave grips, a minimum of 12" in length, is recommended to prolong cable life in all working applications.

### Design Parameters

**CONDUCTORS:** Extra-flexible stranding (Class K), soft-drawn tinned copper; per ASTM B-33, ASTM B-172, and UL-62 for high flexibility and increased flex-life, reduced copper fatigue/conductor breakage, easy solderability and corrosion resistance.

**SEPARATOR:** Paper separator for easy stripping.

**INSULATION:** Color coded thermoset 90°C insulation with nylon jacket per UL-62 and ANSI/NEMA WC70 ICEA S-95-658 for easy conductor identification, excellent physical/electrical properties for use in abusive flexing applications.

**CABLING:** Conductors are cabled (maximum of two layers) with non-wicking, non-hygroscopic fillers around a fibrous strength member, and an overall binder of rubberized fabric tape and reinforced serve for increased mechanical strength/impact resistance and exceptional performance in severe flexing applications.

**JACKET:** Bright yellow, flame, oil and sunlight resistant thermoset jacket per UL-62 and ANSI/NEMA WC70 ICEA S-95-658 with good visibility for safety, suitable for use indoors and outdoors in severe flexing applications where oil, chemicals, and extreme temperatures are considerations.



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### Prysmian Group

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Part Number	Conductor Number	Conductor Size	Stranding	Nominal Insulation Thickness in (mm)	Nominal Jacket Thickness in (mm)	Nominal Cable O.D. in (mm)	Ampacity <sup>1</sup>	Minimum Bend Diameter in (mm)	Approximate Cable Weight Lbs/Mft (Kg/Km)
N7012	6	16 AWG	26/30	.030 (.76)	.080 (2.0)	.590 (15.0)	14	5 (127.0)	201 (299)
N7013	8	16 AWG	26/30	.030 (.76)	.095 (2.4)	.700 (17.8)	12	6 (152.4)	278 (414)
N7015	10	16 AWG	26/30	.030 (.76)	.095 (2.4)	.755 (19.2)	12	6 (152.4)	299 (445)
N7016	12	16 AWG	26/30	.030 (.76)	.095 (2.4)	.775 (19.7)	12	6 (152.4)	342 (509)
N7918	14	16 AWG	26/30	.030 (.76)	.095 (2.4)	.810 (20.6)	12	7 (177.8)	382 (569)
N7019	30	16 AWG	26/30	.030 (.76)	.110 (2.8)	1.165 (29.6)	11	9 (228.6)	823 (1225)
N7020	36	16 AWG	26/30	.030 (.76)	.125 (3.2)	1.320 (33.5)	11	11 (279.4)	1048 (1560)
N7511	6	14 AWG	41/30	.045 (1.1)	.095 (2.4)	.775 (19.7)	20	6 (152.4)	328 (488)
N7512	8	14 AWG	41/30	.045 (1.1)	.095 (2.4)	.890 (22.6)	18	7 (177.8)	447 (665)
N7548	10	14 AWG	41/30	.045 (1.1)	.110 (2.8)	.990 (25.1)	18	8 (203.2)	500 (744)
N7517	12	14 AWG	41/30	.045 (1.1)	.110 (2.8)	1.020 (25.9)	18	9 (228.6)	568 (846)
N7910	14	14 AWG	41/30	.045 (1.1)	.110 (2.8)	1.065 (27.1)	18	9 (228.6)	630 (938)
N7549	16	14 AWG	41/30	.045 (1.1)	.110 (2.8)	1.120 (28.4)	18	9 (228.6)	714 (1063)
N7462	20	14 AWG	41/30	.045 (1.1)	.125 (3.2)	1.265 (32.1)	18	10 (254.0)	897 (1335)
N7621	24	14 AWG	41/30	.045 (1.1)	.125 (3.2)	1.375 (34.9)	15	11 (279.4)	1084 (1614)
N7536	30	14 AWG	41/30	.045 (1.1)	.125 (3.2)	1.550 (39.4)	15	12 (304.8)	1403 (2089)
N7622	36	14 AWG	41/30	.045 (1.1)	.125 (3.2)	1.725 (43.8)	15	14 (355.6)	1748 (2602)
N5231	6	12 AWG	65/30	.045 (1.1)	.095 (2.4)	.835 (21.2)	24	7 (177.8)	410 (610)
N7280	8	12 AWG	65/30	.045 (1.1)	.110 (2.8)	.990 (25.1)	21	8 (203.2)	591 (880)
N7513	10	12 AWG	65/30	.045 (1.1)	.110 (2.8)	1.070 (27.2)	21	9 (228.6)	645 (960)
N5771	12	12 AWG	65/30	.045 (1.1)	.110 (2.8)	1.100 (27.9)	21	9 (228.6)	708 (1054)
N7881	14	12 AWG	65/30	.045 (1.1)	.110 (2.8)	1.155 (29.3)	21	9 (228.6)	806 (1200)
N7042	16	12 AWG	65/30	.045 (1.1)	.110 (2.8)	1.215 (30.9)	21	10 (254.0)	899 (1338)
N5692	20	12 AWG	65/30	.045 (1.1)	.125 (3.2)	1.370 (34.8)	21	11 (279.4)	1144 (1703)
N5772	24	12 AWG	65/30	.045 (1.1)	.125 (3.2)	1.495 (38.0)	18	12 (304.8)	1378 (2054)
N7281	30	12 AWG	65/30	.045 (1.1)	.125 (3.2)	1.690 (42.9)	18	14 (355.6)	1796 (2674)
N7282	36	12 AWG	65/30	.045 (1.1)	.156 (4.0)	1.940 (49.3)	18	16 (406.4)	2374 (3534)
N7456	8	10 AWG	105/30	.045 (1.1)	.110 (2.8)	1.080 (27.4)	28	9 (228.6)	746 (1111)
22752	12	10 AWG	105/30	.045 (1.1)	.110 (2.8)	1.200 (30.5)	28	10 (254.0)	910 (1318)
23658	16	10 AWG	105/30	.045 (1.1)	.125 (3.2)	1.350 (34.3)	28	11 (279.4)	1187 (1719)
12920	20	10 AWG	105/30	.045 (1.1)	.125 (3.2)	1.500 (38.1)	28	12 (304.8)	1425 (2063)

<sup>1</sup>Ampacity based on single cable in free air 30°C ambient, 90°C conductor temperature. Values for 10 conductors and higher include 50% load diversity. The data herein is approximate and subject to normal manufacturing tolerances. These specifications are subject to change without notice.

### ALL-TEMP INDUSTRITE color codes

Conductor Number	Base Color	Conductor Printing	Conductor Number	Base Color	Conductor Printing	Conductor Number	Base Color	Conductor Printing	Conductor Number	Base Color	Conductor Printing
1	Black	1-Black	10	Orange	10-Orange-Black	19	Lt. Blue	19-Blue-Red	28	Black	28-Black-Red-Green
2	White	2-White	11	Lt. Blue	11-Blue-Black	20	Red	20-Red-Green	29	White	29-White-Red-Green
3	Green	3-Green	12	Black	12-Black-White	21	Orange	21-Orange-Green	30	Red	30-Red-Black-Green
4	Red	4-Red	13	Red	13-Red-White	22	Black	22-Black-White-Red	31	Green	31-Green-Black-Orange
5	Orange	5-Orange	14	Green	14-Green-White	23	White	23-White-Black-Red	32	Orange	32-Orange-Black-Green
6	Lt. Blue	6-Blue	15	Lt. Blue	15-Blue-White	24	Red	24-Red-Black-White	33	Lt. Blue	33-Blue-White-Orange
7	White	7-White-Black	16	Black	16-Black-Red	25	Green	25-Green-Black-White	34	Black	34-Black-White-Orange
8	Red	8-Red-Black	17	White	17-White-Red	26	Orange	26-Orange-Black-White	35	White	35-White-Red-Orange
9	Green	9-Green-Black	18	Orange	18-Orange-Red	27	Lt. Blue	27-Blue-Black-White	36	Orange	36-Orange-White-Blue

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