

## Power and Control Tray Cable

with RW90 conductors / 14 AWG to 750 KCMIL / PVC jacket / 600 volt



### Applications

For important power or control circuits where low-loss, high temperature flame-retardant cables are desired. The cables are CSA listed in accordance with and are approved for use where exposed to direct sunlight or directly buried.

These cables are tough with excellent resistance to moisture and corrosion and have high dielectric properties. The insulated conductors are CSA listed RW90.

### Specifications and Ratings

- CSA 38 - RW90
- CSA 230 - TC
- CSA 239 - CIC
- FT4
- -40°C



### Design Parameters

**CONDUCTORS:** Bare soft copper per ASTM B 3, Class B concentrically stranded per ASTM B 8.

**INSULATION:** High dielectric strength, heat and moisture-resistant colored crosslinked polyethylene (XLP) rated for continuous use at 90°C dry and wet to meet CSA 38 for RW90 wire.

**CIRCUIT IDENTIFICATION:** Insulation is coded in accordance with NEMA WC-57 Color Code.

**ASSEMBLY:** Individual conductors are cabled, using non-hygroscopic fillers where necessary, to form a round compact core and wrapped with a binder.

**JACKET:** Abrasion, oil and chemical resistant and highly flame retardant PVC jacket to meet CSA Standard 239.

### Shield Options:

- Corrugated longitudinally-applied
- .005 or .010 copper
- Flat helically-applied .005 or .010 copper
- Aluminum/mylar tape (with or without a drain wire)
- Longitudinally-applied copper or aluminum copolymer-bonded shield
- Copper braid (specify percentage of coverage for optimum EMI protection)

### Prysmian Group

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Conductor Number	Conductor AWG	Nominal Insulation Thickness in (mm)	Ground AWG	Nominal Jacket Thickness in (mm)	Nominal Cable O.D. in (mm)	Approximate Cable Weight Lbs/Mft (Kg/Km)
2	14	.030 (.76)	-	.045 (1.1)	.235 x .375 (6.0 x 9.5)	67 (99)
3	14	.030 (.76)	-	.045 (1.1)	.400 (10.2)	102 (151)
4	14	.030 (.76)	-	.045 (1.1)	.435 (11.0)	126 (186)
5	14	.030 (.76)	-	.045 (1.1)	.475 (12.1)	150 (222)
7	14	.030 (.76)	-	.045 (1.1)	.520 (13.2)	191 (283)
9	14	.030 (.76)	-	.060 (1.5)	.650 (16.5)	274 (406)
12	14	.030 (.76)	-	.060 (1.5)	.710 (18.0)	340 (503)
2	12	.030 (.76)	-	.045 (1.1)	.255 x .415 (6.5 x 10.5)	92 (1362)
3	12	.030 (.76)	-	.045 (1.1)	.440 (11.2)	131 (194)
4	12	.030 (.76)	-	.045 (1.1)	.485 (12.3)	164 (243)
5	12	.030 (.76)	-	.045 (1.1)	.530 (13.5)	202 (299)
7	12	.030 (.76)	-	.060 (1.5)	.610 (15.5)	283 (419)
9	12	.030 (.76)	-	.060 (1.5)	.715 (18.2)	357 (528)
12	12	.030 (.76)	-	.060 (1.5)	.795 (20.2)	462 (684)
2	10	.030 (.76)	-	.045 (1.1)	.280 x .465 (7.1 x 11.8)	121 (1791)
3	10	.030 (.76)	-	.045 (1.1)	.500 (12.7)	185 (2738)
4	10	.030 (.76)	-	.060 (1.5)	.575 (14.6)	257 (3804)
5	10	.030 (.76)	-	.060 (1.5)	.630 (16.0)	308 (4558)
7	10	.030 (.76)	-	.060 (1.5)	.690 (17.5)	397 (5876)
9	10	.030 (.76)	-	.060 (1.5)	.805 (20.4)	496 (734)
12	10	.030 (.76)	-	.080 (2.0)	.935 (23.7)	661 (978)
3 + ground	8	.045 (1.4)	10	.060 (1.5)	.665 (16.9)	296 (438)
3 + ground	6	.045 (1.4)	8	.060 (1.5)	.750 (19.1)	413 (611)
3 + ground	4	.045 (1.4)	8	.080 (2.0)	.910 (23.1)	634 (938)
3 + ground	2	.045 (1.4)	6	.080 (2.0)	1.035 (26.3)	915 (1354)
3 + ground	1/0	.055 (1.4)	6	.080 (2.0)	1.240 (31.5)	1471 (2177)
3 + ground	2/0	.055 (1.4)	6	.080 (2.0)	1.340 (34.0)	1778 (2631)
3 + ground	4/0	.055 (1.4)	4	.080 (2.0)	1.580 (40.1)	2734 (4046)
3 + ground	250	.065 (1.7)	4	.110 (2.8)	1.840 (46.7)	3300 (4884)
3 + ground	350	.065 (1.7)	3	.110 (2.8)	2.030 (51.6)	4385 (6490)
3 + ground	500	.065 (1.7)	2	.110 (2.8)	2.320 (58.9)	6092 (9016)
3 + ground	750	.080 (2.0)	1	.140 (3.6)	2.860 (72.6)	8976 (13284)

Optional features available are: 1) Flexible stranded conductors; 2) Tin-coated copper conductors per ASTM B33.

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

Consult factory for a variety of alternate constructions for specific applications.

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