

APPLICATIONS

Multi-conductor (600 volt UL Type TC/1000 volt CSA RW90 TC) with heat and moisture resistant, thermosetting cross-linked polyethylene (XLPE) insulated circuit conductors and an uninsulated ground conductor with a specially formulated polyvinyl chloride (PVC) jacket suitable for extreme environments where cold, heat, abrasion, moisture and fluids may be involved.

The cable is used in all cable tray applications, as well as aerial and direct burial applications where high performance is required.

Optional constructions using flexible Class K copper stranding are available to provide a flexible tray rated solution that enhances the ease of installation when compared to standard tray cable

FEATURES

1. CONDUCTORS

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

2. INSULATION

High dielectric strength, heat and moisture-resistant colored thermoset cross-linked polyethylene (XLPE) rated for continuous use at 90°C dry and wet to meet ICEA S-95-658 (NEMA WC 70), UL 44 for Type RHW-2 wires and CSA C22.2 No. 38-05.

3. CIRCUIT IDENTIFICATION

Insulation is coded in accordance with NEMA WC-57, black conductors with number print: (1-ONE, 2-TWO, 3-THREE, etc.)

4. ASSEMBLY

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

5. OVERALL JACKET

Flexible heat, oil and moisture-resistant PVC jacket to meet ICEA S-95-658 (NEMA WC 70), UL 1277, CSA C22.2 No. 38-05, C22.2 No.230 88.

6. SURFACE MARKING

The jacket surface shall be printed or indented with: DRAKA CABLETEQ USA - PA TAMAQUA CABLE "number & size of conductor" (x,xxmm²) XLPE RHW-2 TYPE TC 600V (UL) OIL RES I SUN RES DIR BUR --- CSA RW90 XLPE 90C WET OR DRY 1000V FT4 TC -25C SR DIRECT BURIAL

RATINGS

UL RHW-2 600V

CSA RW90 1000V TC

UL Type TC 600V

Insulation is acceptable for use in wet or dry locations at 90 °C

Suitable for use in cable trays, aerial or direct burial installations

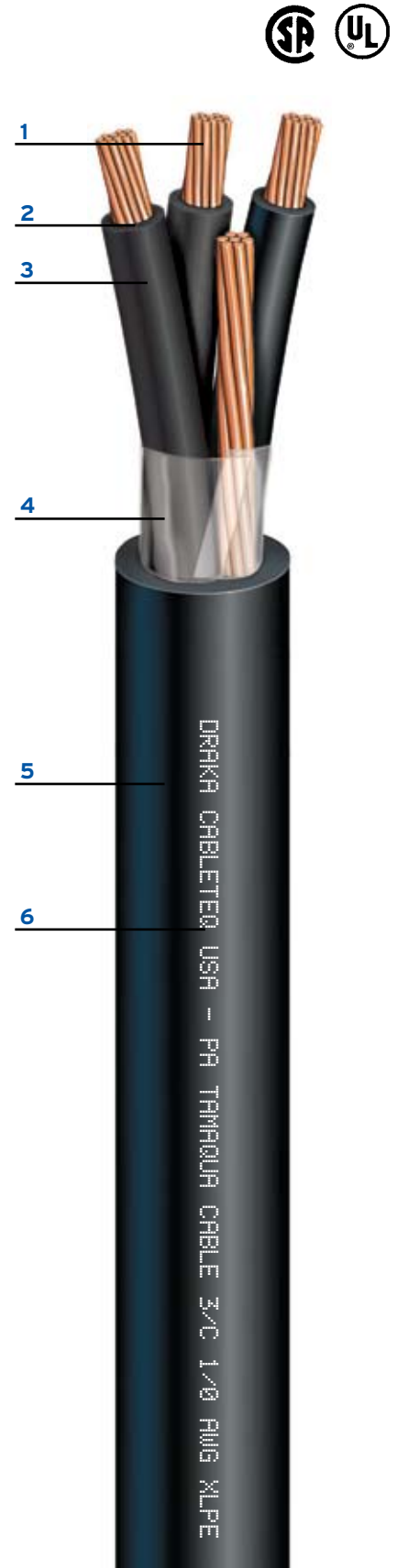
OPTIONAL CONSTRUCTIONS

-40° C

Shielded Cables

Flexible Strand Class K Copper

Insulated Grounds





AUTOFLEX® TC
heavy duty power and control / multiple XLPE conductors
14 AWG to 500 KCMIL / PVC jacket

Part Number	Conductor Number	Conductor AWG/KCMIL (mm ²)	Stranding	Ground AWG (mm ²)	Average Insulation Thickness in (mm)	Average Jacket Thickness in (mm)	Nominal Cable O.D. in (mm)	Approximate Cable Weight Lbs/Mft (Kg/Km)
TCP14-2G	2	14 (2.08)	7/0242	14 (2.08)	.045 (1.1)	.045 (1.1)	.450 (11.4)	110 (164)
TCP14-3G	3	14 (2.08)	7/0242	14 (2.08)	.045 (1.1)	.045 (1.1)	.480 (12.2)	138 (205)
TCP14-4G	4	14 (2.08)	7/0242	14 (2.08)	.045 (1.1)	.045 (1.1)	.525 (13.3)	168 (250)
TCPI2-2G	2	12 (3.31)	7/0305	12 (3.31)	.045 (1.1)	.045 (1.1)	.490 (12.4)	140 (208)
TCPI2-3G	3	12 (3.31)	7/0305	12 (3.31)	.045 (1.1)	.045 (1.1)	.520 (13.2)	179 (266)
TCPI2-4G	4	12 (3.31)	7/0305	12 (3.31)	.045 (1.1)	.060 (1.5)	.610 (15.5)	237 (353)
TCP10-2G	2	10 (5.26)	7/0385	10 (5.26)	.045 (1.1)	.060 (1.5)	.570 (14.5)	209 (311)
TCP10-3G	3	10 (5.26)	7/0385	10 (5.26)	.045 (1.1)	.060 (1.5)	.605 (15.4)	263 (391)
TCP10-4G	4	10 (5.26)	7/0385	10 (5.26)	.045 (1.1)	.060 (1.5)	.675 (17.1)	323 (481)
TCP08-2G	2	8 (8.37)	7/0486	10 (5.26)	.060 (1.5)	.060 (1.5)	.695 (17.7)	291 (433)
TCP08-3G	3	8 (8.37)	7/0486	10 (5.26)	.060 (1.5)	.060 (1.5)	.740 (18.9)	378 (562)
TCP08-4G	4	8 (8.37)	7/0486	10 (5.26)	.060 (1.5)	.060 (1.5)	.815 (20.7)	470 (699)
TCP06-2G	2	6 (13.3)	7/0612	8 (8.37)	.060 (1.5)	.060 (1.5)	.775 (19.7)	396 (589)
TCP06-3G	3	6 (13.3)	7/0612	8 (8.37)	.060 (1.5)	.060 (1.5)	.825 (21.0)	521 (775)
TCP06-4G	4	6 (13.3)	7/0772	8 (8.37)	.060 (1.5)	.080 (2.0)	.960 (24.4)	692 (1030)
TCP04-2G	2	4 (21.2)	7/0772	8 (8.37)	.060 (1.5)	.080 (2.0)	.915 (23.2)	569 (847)
TCP04-3G	3	4 (21.2)	7/0772	8 (8.37)	.060 (1.5)	.080 (2.0)	.975 (24.8)	754 (1122)
TCP04-4G	4	4 (21.2)	7/0772	8 (8.37)	.060 (1.5)	.080 (2.0)	1.070 (27.2)	949 (1412)
TCP02-2G	2	2 (33.6)	7/0974	6 (13.3)	.060 (1.5)	.080 (2.0)	1.040 (26.4)	807 (1201)
TCP02-3G	3	2 (33.6)	7/0974	6 (13.3)	.060 (1.5)	.080 (2.0)	1.105 (28.1)	1084 (1613)
TCP02-4G	4	2 (33.6)	7/0974	6 (13.3)	.060 (1.5)	.080 (2.0)	1.220 (31.0)	1368 (2036)
TCPI0-2G	2	1/0 (53.5)	19/0745	6 (13.3)	.080 (2.0)	.080 (2.0)	1.290 (32.8)	1209 (1799)
TCPI0-3G	3	1/0 (53.5)	19/0745	6 (13.3)	.080 (2.0)	.080 (2.0)	1.375 (34.9)	1645 (2448)
TCPI0-4G	4	1/0 (53.5)	19/0745	6 (13.3)	.080 (2.0)	.080 (2.0)	1.520 (38.6)	2093 (3114)
TCP2/0-2G	2	2/0 (67.4)	19/0837	6 (13.3)	.080 (2.0)	.080 (2.0)	1.380 (35.1)	1430 (2128)
TCP2/0-3G	3	2/0 (67.4)	19/0837	6 (13.3)	.080 (2.0)	.080 (2.0)	1.475 (37.5)	1967 (2927)
TCP2/0-4G	4	2/0 (67.4)	19/0837	6 (13.3)	.080 (2.0)	.080 (2.0)	1.630 (41.4)	2514 (3741)
TCP3/0-2G	2	3/0 (85.0)	19/0940	4 (21.2)	.080 (2.0)	.080 (2.0)	1.485 (37.7)	1756 (2613)
TCP3/0-3G	3	3/0 (85.0)	19/0940	4 (21.2)	.080 (2.0)	.080 (2.0)	1.590 (40.4)	2513 (3739)
TCP3/0-4G	4	3/0 (85.0)	19/0940	4 (21.2)	.080 (2.0)	.110 (2.8)	1.820 (46.2)	3199 (4760)
TCP4/0-2G	2	4/0 (107)	19/1055	4 (21.2)	.080 (2.0)	.080 (2.0)	1.605 (40.8)	2095 (3117)
TCP4/0-3G	3	4/0 (107)	19/1055	4 (21.2)	.080 (2.0)	.080 (2.0)	1.715 (43.6)	2908 (4327)
TCP4/0-4G	4	4/0 (107)	19/1055	4 (21.2)	.080 (2.0)	.110 (2.8)	1.965 (49.9)	3855 (5736)
TCP250-2G	2	250 (127)	37/0822	4 (21.2)	.095 (2.4)	.110 (2.8)	1.825 (46.4)	2565 (3817)
TCP250-3G	3	250 (127)	37/0822	4 (21.2)	.095 (2.4)	.110 (2.8)	1.950 (49.5)	3542 (5270)
TCP250-4G	4	250 (127)	37/0822	4 (21.2)	.095 (2.4)	.110 (2.8)	2.155 (54.7)	4540 (6756)
TCP350-2G	2	350 (177)	37/0973	3 (26.7)	.095 (2.4)	.110 (2.8)	2.045 (51.9)	3383 (5034)
TCP350-3G	3	350 (177)	37/0973	3 (26.7)	.095 (2.4)	.110 (2.8)	2.185 (55.5)	4690 (6979)
TCP350-4G	4	350 (177)	37/0973	3 (26.7)	.095 (2.4)	.110 (2.8)	2.420 (61.5)	6040 (8988)
TCP500-2G	2	500 (253)	37/1162	2 (33.6)	.095 (2.4)	.110 (2.8)	2.310 (58.7)	4541 (6757)
TCP500-3G	3	500 (253)	37/1162	2 (33.6)	.095 (2.4)	.110 (2.8)	2.475 (62.9)	6363 (9468)
TCP500-4G	4	500 (253)	37/1162	2 (33.6)	.095 (2.4)	.110 (2.8)	2.740 (69.6)	8232 (12,249)

Information is subject to change without notice. Consult factory for a variety of alternate constructions for specific applications.