Draka

A brand of the Prysmian Group

AUTOFLEX® TC

Heavy Duty Power and Control / Multiple XLPE Conductors / 14 AWG to 500 KCMIL / PVC Jacket

Applications

Multi-conductor (600 volt UL Type TC/1000 volt CSA RW90 TC) with heat and moisture resistant, thermosetting cross-linked polyethylene (XLPE) insulated cir-cuit 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.

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

Optional Constructions

- -40° C
- Shielded Cables
- Flexible Strand Class K Copper
- Insulated Grounds

Design Parameters

CONDUCTORS: Bare soft copper per ASTM B3, Class B concentrically stranded per ASTM B8.

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.

GROUNDING CONDUCTORS: Class B stranded, soft drawn, bare copper per ASTM B3 and ASTM B8. The grounding conductor is sectioned into three equal sections.

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

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

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.

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 90°C WET OR DRY 1000V FT4 TC -25°C SR DIRECT BURIAL

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300E_AUTOFLEX_TC_HD_MULTI_XLPE_0613

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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 Outside Diameter 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)
TCP12-2G	2	12 (3.31)	7/0305	12 (3.31)	.045 (1.1)	.045 (1.1)	.490 (12.4)	140 (208)
TCP12-3G	3	12 (3.31)	7/0305	12 (3.31)	.045 (1.1)	.045 (1.1)	.520 (13.2)	179 (266)
TCP12-4G	4	12 (3.31)	7/0305	12 (3.31)	.045 (1.1)	0.60 (1.5)	.610 (15.5)	237 (353)
TCP10-2G	2	10 (5.26)	7/0385	10 (5.26)	0.45 (1.1)	0.60 (1.5)	.570 (14.5)	209(311)
TCP10-3G	3	10 (5.26)	7/0385	10 (5.26)	0.45 (1.1)	0.60 (1.5)	.605 (15.4)	263 (391)
TCP10-4G	4	10 (5.26)	7/0385	10 (5.26)	0.45 (1.1)	0.60 (1.5)	.675 (17.1)	323 (481)
TCP08-2G	2	8 (8.37)	7/0486	10 (5.26)	0.60 (1.5)	0.60 (1.5)	.695 (17.7)	291 (433)
TCP08-3G	3	8 (8.37)	7/0486	10 (5.26)	0.60 (1.5)	0.60 (1.5)	.740 (18.9)	378 (562)
TCP08-4G	4	8 (8.37)	7/0486	10 (5.26)	0.60 (1.5)	0.60 (1.5)	.815 (20.7)	470 (699)
TCP06-2G	2	6 (13.3)	7/0612	8 (8.37)	0.60 (1.5)	0.60 (1.5)	.775 (19.7)	396 (589
TCP06-3G	3	6 (13.3)	7/0612	8 (8.37)	0.60 (1.5)	0.60 (1.5)	.825 (21.0)	521 (775)
TCP06-4G	4	6 (13.3)	7/0772	8 (8.37)	0.60 (1.5)	0.80 (2.0)	.960 (24.4)	692 (1030)
TCP04-2G	2	4 (21.2)	7/0772	8 (8.37)	0.60 (1.5)	0.80 (2.0)	.915 (23.3)	569 (847)
TCP04-3G	3	4 (21.2)	7/0772	8 (8.37)	0.60 (1.5)	0.80 (2.0)	.975 (24.8)	754 (1122)
TCP04-4G	4	4 (21.2)	7/0772	8 (8.37)	0.60 (1.5)	0.80 (2.0)	1.070 (27.2)	949 (1412)
TCP02-2G	2	2 (33.6)	7/0974	6 (13.3)	0.60 (1.5)	0.80 (2.0)	1.040 (26.4)	807 (1201)
TCP02-3G	3	2 (33.6)	7/0974	6 (13.3)	0.60 (1.5)	0.80 (2.0)	1.105 (28.1)	1084 (1613)
TCP02-4G	4	2 (33.6)	7/0974	6 (13.3)	0.60 (1.5)	0.80 (2.0)	1.220 (31.0)	1368 (2036)
TCP01/0-2G	2	1/0 (53.5)	19/0745	6 (13.3)	0.80 (2.0)	0.80 (2.0)	1.290 (32.8)	1209 (1799)
TCP01/0-3G	3	1/0 (53.5)	19/0745	6 (13.3)	0.80 (2.0)	0.80 (2.0)	1.375 (34.9)	1645 (2448)
TCP01/0-4G	4	1/0 (53.5)	19/0745	6 (13.3)	0.80 (2.0)	0.80 (2.0)	1.520 (38.6)	2093 (3114)
TCP02/0-2G	2	2/0 (67.4)	19/0837	6 (13.3)	0.80 (2.0)	0.80 (2.0)	1.380 (35.1)	1430 (2128)
TCP02/0-3G	3	2/0 (67.4)	19/0837	6 (13.3)	0.80 (2.0)	0.80 (2.0)	1.475 (37.5)	1967 (2927)
TCP02/0-4G	4	2/0 (67.4)	19/0837	6 (13.3)	0.80 (2.0)	0.80 (2.0)	1.630 (41.4)	2515 (3741)
TCP03/0-2G	2	3/0 (85.0)	19/0940	4 (21.2)	0.80 (2.0)	0.80 (2.0)	1.485 (37.7)	1756 (2613)
TCP03/0-3G	3	3/0 (85.0)	19/0940	4 (21.2)	0.80 (2.0)	0.80 (2.0)	1.590 (40.4)	2513 (3739)
TCP03/0-4G	4	3/0 (85.0)	19/0940	4 (21.2)	0.80 (2.0)	0.110 (2.8)	1.820 (46.2)	3199 (4760)
TCP04/0-2G	2	4/0 (107)	19/1055	4 (21.2)	0.80 (2.0)	0.80 (2.0)	1.605 (40.8)	2095 (3117)
TCP04/0-3G	3	4/0 (107)	19/1055	4 (21.2)	0.80 (2.0)	0.80 (2.0)	1.715 (43.6)	2908 (4327)
TCP04/0-4G	4	4/0 (107)	19/1055	4 (21.2)	0.80 (2.0)	0.110 (2.8)	1.965 (49.9)	3855 (5736)
TCP250-2G	2	250 (127)	37/0822	4 (21.2)	0.95 (2.4)	0.110 (2.8)	1.825 (46.4)	2565 (3817)
TCP250-3G	3	250 (127)	37/0822	4 (21.2)	0.95 (2.4)	0.110 (2.8)	1.950 (49.5)	3542 (5270)
TCP250-4G	4	250 (127)	37/0822	4 (21.2)	0.95 (2.4)	0.110 (2.8)	2.155 (54.7)	4540 (6756)
TCP350-2G	2	350 (177)	37/0973	3 (26.7)	0.95 (2.4)	0.110 (2.8)	2.045 (51.9)	3383 (5034)
TCP350-3G	3	350 (177)	37/0973	3 (26.7)	0.95 (2.4)	0.110 (2.8)	2.185 (55.5)	4690 (6979)
TCP350-4G	4	350 (177)	37/0973	3 (26.7)	0.95 (2.4)	0.110 (2.8)	2.420 (61.5)	6040 (8988)
TCP500-2G	2	500 (253)	37/1162	2 (33.6)	.095 92.4)	.110 (2.8)	2.310 (58.7)	4541 (6757)
TCP500-3G	3	500 (253)	37/1162	2 (33.6)	.095 92.4)	.110 (2.8)	2.475 (62.9)	6363 (9468)
TCP500-4G	4	500 (253)	37/1162	2 (33.6)	.095 92.4)	.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.

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