SERIES 1080

Single core cables type THHW/TFF MTW CT-USE AWM

Fixed application, unshielded

Use

Unshielded single-core cables used for wiring machine tools, industrial electrical and electronic equipments. They are suitable for use in fixed or non-cyclic mobile installations and are certified "for CT use" for 4 AWG sizes for ground conductors and 1/0 AWG for power conductors. The single-core THHW/TFF MTW AWM cables comply with ANSI/NFPA 79, Articles 310 and 402 of ANSI/NFPA 70 “National Electrical Code” (NEC), and CSA C22.1 "Canadian Electrical Code" (CE Code).

Technical data

Characteristics	Value/property
Conductor	Flexible bare copper strand, class 5
Insulation	PVC compound
Jacket	PVC compound. Metric marking.
Temperature range	+90°C -40°C (fixed); -5°C (occasional flexing)
Voltage rating	600 V (MTW), 1000 V (AWM), 600/1000 V (IEC)
Spark test	10000 V
Bending radius	4 x cable outer diameter (13 x cable outer diameter for non-cyclical mobile uses)
Standards of construction	UL/CSA approvals: (UL) Type MTW, TFF (1,5 mm²) / THHW (2,5 mm²), for CT use (≥4 AWG ground cond., ≥1/0 AWG for ungrounded cond.), c(UR)us AWM Style 1032, AWM I A/B; Nec Art. 310, 402; UL 1581, UL 758, UL 1277, UL 1063 | Flame res.: Test B acc. to DIN VDE 0472 part 804, IEC 60332-1-2, UL VW-1, CSA FT1 | Other: Low Voltage Directive (LVD) 2014/35/EU
Standards of use	ANSI/NFPA 70 (NEC), ANSI/NFPA 79, UL 508a, CSA C22.1 (CE Code), CSA C22.2 No.286, Style 1032

Marking

TEKIMA 10800 – CE 1x2,5 mm² 90°C 600/1000V IEC 60332-1-2 (UL) E361260 MTW 1x14 AWG 600V or THHW or AWM Style 1032 1000V VW-1 c(UR) AWM I A/B 1000V FT1 14 AWG – (prod.reference) = (metric) =

TEKIMA 10800 – CE 1x70 mm² 90°C 600/1000V IEC 60332-1-2 (UL) E361260 MTW 1x2/0 AWG 600V or THHW "FOR CT USE" or AWM Style 1032 1000V VW-1 c(UR) AWM I A/B 1000V FT1 14 AWG – (prod.reference) = (metric) =

Coding and dimensions

Code	Size [AWG/kcmil]	Size [mm²]	Diameter [mm (inch)]	Weight [kg/km (lb/mft)]	Packaging [m (ft)]
CVC250_10800_□□	14 AWG	2,5	5,9 (0.232)	58 (39)	500 (1640)
CVC400_10800_□□	12	4	6,5 (0.256)	77 (52)	500 (1640)
CVC600_10800_□□	10	6	7,1 (0.280)	101 (68)	500* (1640*)
CVCB10_10800_□□	8	10	8,8 (0.346)	161 (108)	500* (1640*)
CVCB16_10800_□□	6	16	10,6 (0.417)	244 (164)	500* (1640*)
CVCW05_10800_□□	5	16,8	10,7 (0.421)	318 (214)	500* (1640*)
CVCB25_10800_□□ (4)	4	25	12,1 (0.476)	430 (289)	500* (1640*)
CVCW03_10800_□□ (4)	3	26,7	12,8 (0.504)	570 (383)	500* (1640*)
CVCB35_10800_□□ (4)	2	35	14,0 (0.551)	768 (516)	500* (1640*)
CVCB50_10800_□□ (4)	1	50	16,7 (0.657)	1054 (708)	500* (1640*)
CVCW/1_10800_□□ (5)	1/0	53,5	17,4 (0.685)	1280 (860)	500* (1640*)
CVCB70_10800_□□ (5)	2/0	70	18,1 (0.713)	1537 (1033)	500* (1640*)
CVCB95_10800_□□ (5)	3/0	95	19,8 (0.780)	1873 (1259)	500* (1640*)
CVCL12_10800_□□ (5)	4/0	120	22,5 (0.886)	2423 (1628)	500* (1640*)
CVCL15_10800_□□ (5)	250 kcmil	150	24,9 (0.980)	2517 (1692)	500* (1640*)
CVCX30_10800_□□ (5)	300	152	25,8 (1.016)	2558 (1719)	500* (1640*)
CVCL18_10800_□□ (5)	350	185	26,7 (1.051)	2562 (1722)	500* (1640*)

Coding and dimensions

Code	Size [AWG/kcmil]	Size [mm²]	Diameter [mm (inch)]	Weight [kg/km (lb/mft)]	Packaging [m (ft)]
CVCX40_10800_□□ (5)	400	203	28,0 (1.102)	2618 (1759)	500* (1640*)
CVCL24_10800_□□ (5)	450	240	29,6 (1.165)	2685 (1804)	500* (1640*)
CVCX50_10800_□□ (5)	500	254	31,5 (1.240)	2789 (1874)	500* (1640*)
CVCL30_10800_□□ (5)	550	300	34,7 (1.366)	2984 (2005)	500* (1640*)
CVCL40_10800_□□ (5)	750	400	37,7 (1.484)	3494 (2348)	500* (1640*)

* For this article, an additional UL certified cut-to-length service is carried out on request (“Processed Wire”).

(4) This article is "for CT use" in green or green/yellow colors (grounding conductors).

(5) This article is "for CT use" in all colors.

Code composition

CVC | **□□□** | **_10800_** | **□□**

Size	To be inserted
2,5, 4, ..., 6 mm²	250, 400, ..., 600
10, 16, ..., 95 mm²	B10, B16, ..., B95
120, 150, ..., 400 mm²	L12, L15, ..., L40
1, 2, ..., 26 AWG	W01, W02, ..., W26
1/0, ..., 4/0 AWG	W/1, W/2, ..., W/4
250, 300, ..., 500 kcmil	X25, X30, ..., X50

Color	To be inserted
Yellow/green	GV
Black	NE

Note. The double color is such that one of the colours covers at least 30% and not more than 70% of the surface, the other colour covering the remainder of that surface.