

SERIES
1070

Single core cables type THHW/TFF MTW AWM TEW



Fixed application, unshielded



<HAR>



Use

Oil resistant single core cables suitable for machine tools subjected to medium mechanical stresses, for fixed or flexible installation, where free movement is required without tensile stresses and without forced guidance systems. The THHW/TFF MTW single core cables are in accordance with the ANSI/NFPA 79 and ANSI/NFPA 70 "National Electrical Code" (NEC) Art. 310 and 402.

Technical data

Characteristics	Value/property
Conductor	Flexible bare copper strand, class 5
Insulation	PVC compound
Temperature range	+90°C (MTW), +105°C (AWM/TEW), +90°C (IEC), +90°C (HAR H05V2-K/H07V2-K <50 mm ²), +70°C (HAR H07V-K ≥50 mm ²), -40°C (fixed); -5°C (not fixed)
Voltage rating	1000 V (AWM), 600 V (MTW), 300/500 V (IEC/HAR ≤1 mm ²), 450/750 V (IEC/HAR >1 mm ²)
Spark test	6000 V
Bending radius	4 x cable outer diameter (13 x cable outer diameter for wnon-cyclical mobile uses)
Standards of construction	Nec Art. 310, 402 - Oil res.: UL 1277, UL 1063, TFF (≤1,5 mm ²) / THHW (≥2,5 mm ²), TEW (≤4/0 AWG) Flame res.: Test B acc. to DIN VDE 0472 part 804, IEC 60332-1-2, UL/CSA FT1, Other: CEI EN 50525-2-31 and HD 21.3 S3:1995+A1:1999+A2:2008, CSA AWM I A/B TEW, cURus AWM Style 10269, MTW
Standards of use	ANSI/NFPA 70 (NEC), ANSI/NFPA 79, UL 508a, CSA C22.1 (CE Code), CSA C22.2 No.286, Style 10269

Marking

TEKIMA 10700 – H07V2-K IEMMEQU <HAR> 90°C CE 1x2,5 mm² 90°C 450/750V IEC 60332-1-2 RoHS (UL) E361260 MTW 1x14 AWG 600V or THHW or AWM Style 10269 c(UR) AWM I A/B 1000V or TEW 105°C 600V FT1 14 AWG – (prod.reference) = (metric) =

Coding and dimensions

Code	Size [mm ²]	Size [AWG/kcmil]	Diameter [mm (inch)]	Weight [kg/km (lb/mft)]	Packaging [m (ft)]	Large packaging [m (ft)]
CVC034_10700_00_000 ⁽¹⁾	0,34	22 AWG	2,3 (0.091)	8 (5)	500 (1640) C	-
CVC050_10700_00_000 ⁽²⁾	0,5	21	2,5 (0.098)	11 (7)	500 (1640) C	-
CVC075_10700_00_000 ⁽²⁾	0,75	19	2,7 (0.106)	14 (9)	100 (328) C	-
CVC100_10700_00_000	1	18	2,9 (0.114)	16 (11)	100 (328) C	153 (500) S
CVC150_10700_00_000	1,5	16	3,2 (0.126)	23 (15)	100 (328) C	153 (500) S
CVC250_10700_00_000	2,5	14	3,6 (0.142)	33 (22)	100 (328) C	153 (500) S
CVC400_10700_00_000	4	12	4,3 (0.169)	49 (33)	100 (328) C	153 (500) S
CVC600_10700_00_000	6	10	4,8 (0.189)	69 (46)	100 (328) C	153 (500) S
CVCB10_10700_00_000	10	8	6,5 (0.256)	118 (79)	100 (328) C	153 (500) S
CVCB16_10700_00_000	16	6	8,3 (0.327)	191 (128)	500* (1640*) R	-
CVCB25_10700_00_000	25	4	9,8 (0.386)	284 (191)	500* (1640*) R	-
CVCB35_10700_00_000	35	2	11,0 (0.433)	382 (257)	500* (1640*) R	-
CVCB50_10700_00_000	50	1	13,7 (0.539)	564 (379)	500* (1640*) R	-
CVCB70_10700_00_000	70	2/0	15,8 (0.622)	774 (520)	500* (1640*) R	-
CVCB95_10700_00_000	95	3/0	17,3 (0.681)	1003 (674)	500* (1640*) R	-
CVCL12_10700_00_000	120	4/0	18,4 (0.724)	1221 (820)	500* (1640*) R	-
CVCL15_10700_00_000	150	250 kcmil	20,8 (0.819)	1537 (1033)	500* (1640*) R	-

Code	Size [mm ²]	Size [AWG/kcmil]	Diameter [mm (inch)]	Weight [kg/km (lb/mft)]	Packaging [m (ft)]	Large packaging [m (ft)]
CVCL18_10700_□□_□□□	185	350	22,6 (0.890)	1869 (1256)	500* (1640*) R	-
CVCL24_10700_□□_□□□	240	450	27,4 (1.079)	2528 (1699)	500* (1640*) R	-

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

Packaging type: S = spool, C = coil, R = reel

(1) This article is not HAR and is not THHW/TFF.

(2) This article is not THHW/TFF.

Code composition

CVC	□□□	_10700_	□□	_	□□□□

Size	To be inserted
1, 1,5, ..., 6 mm ²	100, 150, ..., 600
10, 16, ..., 95 mm ²	B10, B16, ..., B95
120, 150, ..., 240 mm ²	L12, L15, ..., L24

Color	To be inserted
Orange	AR
White/orange**	BA**
White	BI
White/blue**	BB**
White/yellow**	BG**
Blue Ral 5010	BU
Yellow*	GI*
Yellow/green	GV
Gray	GR
Brown	MR
Black	NE
Pink	RS
Red	RO
Green*	VE*

Packaging	To be inserted
Standard	<keep this field empty>
Large	_LR

* For these colors the product is not HAR.

** For these colors the product is not HAR for sizes > 1 mm².

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.