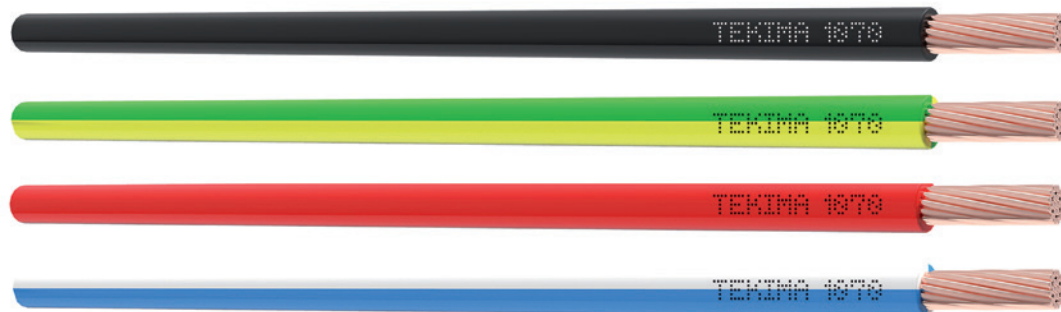


SERIES
1070

Single core cables type THHW/TFF MTW CT-USE AWM TEW TW75

Fixed application, unshielded



<HAR>

RoHS

CE UK CA

ECOLAB

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, AWM single core cables are in accordance with the ANSI/NFPA 79 and ANSI/NFPA 70 "National Electrical Code" (NEC) Art. 310 and 402. They are also certified "for CT use" for 4 AWG sections for ground conductors and 1/0 AWG for power conductors. These cables are TW75, TEW, AWM according to CSA C22.1 "Canadian Electrical Code" (CE Code).

* Important. The "for CT use" and TW75 version is upon specific request.

Technical data

Characteristics	Value/property
Conductor	Flexible bare copper strand, class 5
Insulation	PVC compound
Temperature range	+90°C (MTW), +105°C (AWM/TEW), +75°C (TW75), +90°C (IEC), +90°C (HAR H05V2-K/H07V2-K <50 mm²), +70°C (HAR H07V-K ≥50 mm²), -40°C (fixed); -5°C (not fixed)
Voltage rating	1000 V (AWM), 600 V (MTW/TEW/TW75), 300/500 V (IEC/HAR ≤1 mm²), 450/750 V (IEC/HAR >1 mm²)
Spark test	6000 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, THHW (≥2,5 mm²), for CT use (≥4 AWG ground cond., ≥1/0 AWG for ungrounded cond.), c(UL) TW75 (≥2,5 mm²), (UR) AWM Style 10269, AWM Style 1015, TFF (≤1,5 mm²), c(UR) TEW (≤4/0 AWG), AWM I A/B; NEC Art. 310, 402; CSA C22.1 Tab. 19; UL 1581, UL 758, UL 1277, UL 1063, CSA C22.2 No. 75, CSA C22.2 No. 127, CSA C22.2 No. 210 Flame res.: Test B acc. to DIN VDE 0472 part 804, IEC 60332-1-2, UL/CSA FT1 UV res.: UNI EN ISO 4892-2 (black), UNI EN ISO 4892-3 (other colors) Other: CEI EN 50525-2-31 and HD 21.3 S3:1995+A1:1999+A2:2008, 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 10269, Style 1015

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 10269 105°C 1000V or AWM 1015 105°C 600V c(UL) TW75 1x14 AWG 600V or TEW 105°C or AWM I A/B 105°C 1000V FT1 – (prod.reference) = (metric) =

TEKIMA 10700 – H07V2-K IEMMEQU <HAR> 90°C CE 1x35 mm² 90°C 450/750V IEC 60332-1-2 RoHS (UL) E361260 MTW 1x2 AWG 600V or THHW "FOR CT USE" or AWM 10269 105°C 1000V or AWM 1015 105°C 600V c(UL) TW75 1x14 AWG 600V or TEW 105°C or AWM I A/B 105°C 1000V FT1 – (prod.reference) = (metric) =

Coding and dimensions

Code	Size [AWG/kcmil]	Size [mm²]	Diameter [mm (inch)]	Weight [kg/km (lb/mft)]	Packaging [m (ft)]	Large packaging [m (ft)]
CVC034_10700_□□ ⁽¹⁾⁽³⁾	22 AWG	0,34	2,3 (0.091)	8 (5)	500 (1640) C	-
CVC050_10700_□□ ⁽²⁾⁽³⁾	21	0,5	2,5 (0.098)	11 (7)	500 (1640) C	-
CVC075_10700_□□ ⁽²⁾⁽³⁾	19	0,75	2,7 (0.106)	14 (9)	100 (328) C	-
CVC100_10700_□□ ⁽³⁾	18	1	2,9 (0.114)	16 (11)	100 (328) C	153 (500) S
CVC150_10700_□□ ⁽³⁾	16	1,5	3,2 (0.126)	23 (15)	100 (328) C	153 (500) S
CVC250_10700_□□	14	2,5	3,6 (0.142)	33 (22)	100 (328) C	153 (500) S
CVC400_10700_□□	12	4	4,3 (0.169)	49 (33)	100 (328) C	153 (500) S
CVC600_10700_□□	10	6	4,8 (0.189)	69 (46)	100 (328) C	153 (500) S
CVCB10_10700_□□	8	10	6,5 (0.256)	118 (79)	100 (328) C	153 (500) S
CVCB16_10700_□□	6	16	8,3 (0.327)	191 (128)	500* (1640)* R	-
CVCB25_10700_□□ ⁽⁴⁾	4	25	9,8 (0.386)	284 (191)	500* (1640)* R	-
CVCW03_10700_□□ ⁽⁴⁾	3	26,7	10,5 (0.413)	326 (219)	500* (1640)* B	-

Code	Size [AWG/kcmil]	Size [mm²]	Diameter [mm (inch)]	Weight [kg/km (lb/mft)]	Packaging [m (ft)]	Large packaging [m (ft)]
CVCB35_10700_□□ ⁽⁴⁾	2	35	11,0 (0.433)	382 (257)	500* (1640*) R	-
CVCB50_10700_□□ ⁽⁴⁾	1	50	13,7 (0.539)	564 (379)	500* (1640*) R	-
CVCW/1_10700_□□ ⁽⁵⁾	1/0	53,5	14,4 (0.567)	641 (431)	500* (1640*) B	-
CVCB70_10700_□□ ⁽⁵⁾	2/0	70	15,8 (0.622)	774 (520)	500* (1640*) R	-
CVCB95_10700_□□ ⁽⁵⁾	3/0	95	17,3 (0.681)	1003 (674)	500* (1640*) R	-
CVCL12_10700_□□ ⁽⁵⁾	4/0	120	18,4 (0.724)	1221 (820)	500* (1640*) R	-
CVCL15_10700_□□ ⁽⁵⁾	250 kcmil	150	20,8 (0.819)	1537 (1033)	500* (1640*) R	-
CVCX30_10700_□□ ⁽⁵⁾	300	152	21,7 (0.868)	1677 (1127)	500* (1640*) B	-
CVCL18_10700_□□ ⁽⁵⁾	350	185	22,6 (0.890)	1869 (1256)	500* (1640*) R	-
CVCL24_10700_□□ ⁽⁵⁾	450	240	27,4 (1.079)	2528 (1699)	500* (1640*) R	-
CVCX50_10700_□□ ⁽⁵⁾	500	254	27,4 (1.079)	2760 (1855)	500* (1640*) B	-

* 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.

(3) This article is c(UR) AWM and TEW but it cannot be c(UL) TW75.

(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 □ □ □ _10700_ □ □ □ □ □							
						Packaging	To be inserted
						Standard	<keep this field empty>
						Large	_LR

Size	To be inserted
1, 1,5, ..., 6 mm²	100, 150, ..., 600
10, 16, ..., 95 mm²	B10, B16, ..., B95
120, 150, ..., 240 mm²	L12, L15, ..., L24
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
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*

* 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.