

**SERIES
1000****Single core cables type THHN MTW**

Fixed application, unshielded

**Use**

As specified by ANSI/NFPA 70 "National Electrical Code" (NEC), type THHN wires are used mainly for trade and industrial applications, type MTW wires are used mainly for the machinery wire harness. They are made of thermoplastic material with nylon jacket, resistant to heat, humidity and oils for applications not exceeding 600 V.

Technical data

Characteristics	Value/property
Conductor	Red or tinned copper
Insulation	PVC according to UL 1581
Jacket	Nylon
Temperature range	+90°C
Voltage rating	600 V
Standards of construction	UL 83, UL 1063
Standards of use	ANSI/NFPA 70 (NEC) ANSI/NFPA 79, UL 508a

Coding and dimensions

Code	Size [AWG/kcmil]	Size [mm²]	Diameter [mm (inch)]	Weight [kg/km (lb/mft)]
CVCW18_10000_□□ ⁽¹⁾	18 AWG	0,82	2,2 (0.088)	6 (4)
CVCW16_10000_□□ ⁽¹⁾	16	1,31	2,6 (0.102)	17 (11)
CVCW14_10000_□□	14	2,08	3,0 (0.118)	25 (17)
CVCW12_10000_□□	12	3,31	3,5 (0.138)	37 (25)
CVCW10_10000_□□	10	5,26	4,3 (0.169)	60 (40)
CVCW08_10000_□□	8	8,37	5,8 (0.228)	95 (64)
CVCW06_10000_□□	6	13,3	6,7 (0.264)	143 (96)
CVCW04_10000_□□	4	21,2	8,5 (0.335)	229 (154)
CVCW02_10000_□□	2	33,6	10,0 (0.394)	349 (235)
CVCW01_10000_□□	1	42,4	11,2 (0.441)	451 (303)
CVCW/1_10000_□□	1/0	53,5	12,2 (0.480)	560 (376)
CVCW/2_10000_□□	2/0	67,4	13,5 (0.531)	695 (467)
CVCW/3_10000_□□	3/0	85,0	14,7 (0.579)	865 (581)
CVCW/4_10000_□□	4/0	107	16,0 (0.630)	1077 (724)
CVCX25_10000_NE	250 kcmil	127	18,3 (0.720)	1347 (905)
CVCX30_10000_NE	300	152	19,6 (0.772)	1577 (1060)
CVCX35_10000_NE	350	177	21,1 (0.831)	1823 (1225)
CVCX40_10000_NE	400	203	22,1 (0.870)	2053 (1380)
CVCX50_10000_NE	500	253	24,4 (0.961)	2567 (1725)
CVCX60_10000_NE	600	304	26,9 (1.059)	3110 (2090)
CVCX75_10000_NE	750	380	29,7 (1.169)	3839 (2580)
CVCY10_10000_NE	1000	507	33,5 (1.319)	5104 (3430)

(1) Not THHN listed, only MTW.

Code composition

CVC				_10000_		
------------	----------------------	----------------------	----------------------	----------------	----------------------	----------------------

Size	To be inserted
1, 2, ..., 18 AWG	W01, W02, ..., W18
1/0, ..., 4/0 AWG	W/1, W/2, ..., W/4
250, 300, ..., 750 kcmil	X25, X30, ..., X75
1000 kcmil	Y10

Color	To be inserted
Orange	AR
White	BI
White/blue	BB
Blue	BU
Yellow	GI
Yellow/green	GV
Gray	GR
Brown	MR
Black	NE
Pink	RS
Red	RO
Green	VE
Violet	VI