

Non schermati - unshielded



Impiego - Use

Cavi UL Listed non schermati (THHN/THWN or TFN) costruiti per gli usi specificati dall'articolo 336 del ANSI/NFPA 70 "National Electrical Code" (NEC) e idonei all'impiego in Class I, Division 2, Hazardous Locations. I cavi identificati con Type TC-ER (Exposed Run) possono essere installati negli impianti industriali per le connessioni tra le canaline posa cavi (cable tray) e l'apparecchiatura senza l'impiego di condotti metallici (metal conduits) o cavi armati Type MC (Metal Clad Cable); tale tipo di connessioni viene definito Open Wiring. I cavi Type TC-ER devono rispondere ai requisiti di resistenza all'impatto richiesti per i cavi Type MC.

UL Listed unshielded cables (THHN/THWN or TFN) intended for the uses specified by art. 336 of ANSI/NFPA 70 "National Electrical Code" (NEC) and suitable for use in Class I, Division 2, Hazardous Locations. The cables identified with Type TC-ER (Exposed Run) can be installed in the industrial establishments for the connections between cable trays and equipment without the employment of metal conduits or armored Type MC cables (Metal Clad Cable); this type of connections is called Open Wiring. Type TC-ER cables must meet impact resistance requirements required for Type MC cables.

Informazione. Si prega di chiedere all'ufficio commerciale la possibilità del servizio aggiuntivo di taglio a misura certificato UL ("Processed Wire").
Information. Please ask the sales department for the possibility of an additional UL certified cut-to-size service ("Processed Wire").

Dati tecnici - Technical data

Secondo quanto specificato dal NEC i cavi TC (tray cable) possono essere utilizzati per gli usi seguenti¹:

According to NEC, the TC cables (tray cable) can be employed as follows¹:

- (1) For power, lighting, control and signal circuits.
- (2) In cable trays.
- (3) In raceways.
- (4) In outdoor locations supported by a messenger wire.
- (5) For Class 1 circuits as permitted in Parts II and III of Article 725 (NEC).
- (6) For non-power-limited fire alarm circuits if conductors comply with the requirements of Article 760.27 (NEC).
- (7) In industrial establishments where the conditions of maintenance and supervision ensure that only qualified persons service the installation, and where the cable is continuously supported and protected against physical damage using mechanical protection, such as struts, angles, or channels... (see Article 336.10).
- (8) Where installed in wet locations, type TC cable shall also be resistant to moisture and corrosive agents.

¹ Per assicurare la corretta destinazione d'uso definita nel NEC si è deciso di mantenere la versione linguistica originaria.

Caratteristica Characteristics	Valore/proprietà Value/property
Conduttore Conductor	Trefolo di rame Copper strand
Isolamento Insulation	PVC/Nylon
Distinzione conduttori Conductor distinction	ICEA Metodo 1, tabella E-2 (vedi appendice) per sezioni 18 AWG ÷ 10 AWG ICEA Metodo 4 per sezioni 8 AWG ÷ 4/0 AWG (neri numerati) ICEA Method 1, table E-2 (see appendix) for sizes 18 AWG ÷ 10 AWG ICEA Method 4 for sizes 8 AWG ÷ 4/0 AWG (black numbered)
Conduttore di terra Ground wire	Rame nudo per sezioni 8 AWG ÷ 4/0 AWG Bare copper for sizes 8 AWG ÷ 4/0 AWG
Guaina Jacket	PVC resistente agli olii, colore nero PVC oil-resistant, black color
Temperatura di esercizio Temperature range	+90°C (dry conditions), +75°C (wet conditions)
Tensione nominale Voltage rating	600 V
Raggio di curvatura Bending radius	Vedi Article 336.24 (NEC) See Article 336.24 (NEC)
Riferimenti normativi costruttivi Standards of construction	UL/CSA approvals: (UL) Type TC-ER (Exposed Run), Class 1, Div. 2 NEC Art. 336, 392, 501; CSA C22.1 Tab.19; UL 1581, UL 1277, CSA C22.2 No.230, CSA C22.2 No. 239
Riferimenti normativi d'impiego Standards of use	NFPA 70 (NEC), CSA C22.1 (CE Code)

Codifiche e dimensioni - Coding and dimensions

Codice Code	Numero di conduttori Number of conductors	Sezione Size [AWG/kcmil]	Sezione conduttore di terra Ground wire size [AWG]	Diametro Diameter [mm (inch)]	Peso Weight [kg/km (lb/mft)]
CV02XW18_81000_NE*	2	18 AWG	-	6,9 (0.272)	57 (38)
CV02XW16_81000_NE*	2	16	-	7,6 (0.299)	74 (50)
CV02XW14_81000_NE*	2	14	-	8,1 (0.319)	95 (64)
CV02XW12_81000_NE*	2	12	-	9,0 (0.354)	127 (85)
CV02XW10_81000_NE*	2	10	-	10,7 (0.421)	171 (115)
CV03XW18_81000_NE	3	18	-	7,2 (0.283)	68 (46)
CV03XW16_81000_NE	3	16	-	8,0 (0.315)	89 (60)
CV03XW14_81000_NE	3	14	-	8,8 (0.346)	119 (80)
CV03XW12_81000_NE	3	12	-	9,8 (0.386)	164 (110)

Cavi multipolari non armati per posa fissa - Unarmoured cables for fixed applications

Codice Code	Numero di conduttori Number of conductors	Sezione Size [AWG/kcmil]	Sezione conduttore di terra Ground wire size [AWG]	Diametro Diameter [mm (inch)]	Peso Weight [kg/km (lb/mft)]
CV03XW10_81000_NE	3	10	-	11,4 (0.449)	234 (157)
CV03XW08_81000_NE	3	8	10	15,2 (0.598)	458 (308)
CV03XW06_81000_NE	3	6	8	17,5 (0.689)	646 (434)
CV03XW04_81000_NE	3	4	8	22,3 (0.878)	967 (650)
CV03XW02_81000_NE	3	2	6	25,4 (1.000)	1435 (964)
CV03XW/1_81000_NE	3	1/0	6	31,1 (1.224)	2153 (1447)
CV03XW/2_81000_NE	3	2/0	6	33,5 (1.319)	2610 (1754)
CV03XW/4_81000_NE	3	4/0	4	39,2 (1.543)	3914 (2630)
CV03XX25_81000_NE	3	250 kcmil	4	44,2 (1.740)	4728 (3177)
CV03XX35_81000_NE	3	350	3	50,6 (1.990)	6344 (4263)
CV03XX50_81000_NE	3	500	2	57,7 (2.270)	8765 (5890)
CV04XW18_81000_NE	4	18 AWG	-	7,9 (0.311)	83 (56)
CV04XW16_81000_NE	4	16	-	8,6 (0.339)	110 (74)
CV04XW14_81000_NE	4	14	-	9,3 (0.366)	149 (100)
CV04XW12_81000_NE	4	12	-	10,7 (0.421)	205 (138)
CV04XW10_81000_NE	4	10	-	12,8 (0.504)	311 (209)
CV04XW08_81000_NE	4	8	10	16,6 (0.654)	555 (373)
CV04XW06_81000_NE	4	6	8	19,3 (0.760)	793 (533)
CV04XW04_81000_NE	4	4	8	24,6 (0.969)	1226 (824)
CV04XW02_81000_NE	4	2	6	27,9 (1.098)	1826 (1227)
CV04XW/1_81000_NE	4	1/0	6	34,5 (1.358)	2723 (1830)
CV04XW/2_81000_NE	4	2/0	6	37,0 (1.457)	3351 (2252)
CV04XW/4_81000_NE	4	4/0	4	45,0 (1.772)	5212 (3502)
CV04XX25_81000_NE	4	250 kcmil	4	49,4 (1.945)	6112 (4107)
CV04XX35_81000_NE	4	350	3	55,6 (2.190)	8312 (5585)
CV04XX50_81000_NE	4	500	2	63,6 (2.505)	11450 (7694)
CV05XW18_81000_NE	5	18 AWG	-	8,5 (0.335)	97 (65)
CV05XW16_81000_NE	5	16	-	9,4 (0.370)	144 (97)
CV05XW14_81000_NE	5	14	-	10,4 (0.409)	176 (118)
CV05XW12_81000_NE	5	12	-	11,3 (0.445)	246 (165)
CV05XW10_81000_NE	5	10	-	14,5 (0.571)	399 (268)
CV07XW18_81000_NE	7	18	-	9,1 (0.358)	122 (82)
CV07XW16_81000_NE	7	16	-	10,2 (0.402)	165 (111)
CV07XW14_81000_NE	7	14	-	11,3 (0.445)	228 (153)
CV07XW12_81000_NE	7	12	-	12,5 (0.492)	323 (217)
CV07XW10_81000_NE	7	10	-	15,8 (0.622)	521 (350)
CV09XW18_81000_NE	9	18	-	10,7 (0.421)	156 (105)
CV09XW16_81000_NE	9	16	-	11,7 (0.461)	210 (141)
CV09XW14_81000_NE	9	14	-	12,8 (0.504)	317 (213)
CV09XW12_81000_NE	9	12	-	15,4 (0.606)	442 (297)
CV09XW10_81000_NE	9	10	-	18,4 (0.724)	655 (440)
CV10XW18_81000_NE	10	18	-	10,8 (0.425)	170 (114)
CV10XW16_81000_NE	10	16	-	12,6 (0.496)	229 (154)
CV12XW18_81000_NE	12	18	-	11,3 (0.445)	195 (131)
CV12XW16_81000_NE	12	16	-	12,8 (0.504)	265 (178)
CV12XW14_81000_NE	12	14	-	15,1 (0.594)	397 (267)
CV12XW12_81000_NE	12	12	-	17,2 (0.677)	561 (377)
CV12XW10_81000_NE	12	10	-	20,7 (0.815)	869 (584)
CV15XW18_81000_NE	15	18	-	12,3 (0.484)	241 (162)
CV15XW16_81000_NE	15	16	-	15,4 (0.606)	356 (239)
CV16XW18_81000_NE	16	18	-	12,7 (0.500)	249 (167)
CV16XW16_81000_NE	16	16	-	15,2 (0.598)	359 (241)
CV18XW18_81000_NE	18	18	-	14,5 (0.571)	292 (196)
CV18XW16_81000_NE	18	16	-	16,0 (0.630)	n.a.
CV18XW14_81000_NE	18	14	-	17,8 (0.701)	n.a.
CV18XW12_81000_NE	18	12	-	19,6 (0.772)	n.a.
CV19XW18_81000_NE	19	18	-	14,5 (0.571)	311 (209)
CV19XW16_81000_NE	19	16	-	16,1 (0.634)	423 (284)
CV19XW14_81000_NE	19	14	-	17,7 (0.697)	589 (396)
CV19XW12_81000_NE	19	12	-	19,9 (0.783)	845 (568)
CV25XW18_81000_NE	25	18	-	16,6 (0.654)	396 (266)
CV25XW16_81000_NE	25	16	-	17,9 (0.705)	542 (364)
CV25XW14_81000_NE	25	14	-	19,9 (0.783)	755 (507)

Codice <i>Code</i>	Numero di conduttori <i>Number of conductors</i>	Sezione <i>Size [AWG/kcmil]</i>	Sezione conduttore di terra <i>Ground wire size [AWG]</i>	Diametro <i>Diameter [mm (inch)]</i>	Peso <i>Weight [kg/km (lb/mft)]</i>
CV25XW12_81000_NE	25	12	-	23,9 (0.941)	1153 (775)
CV30XW18_81000_NE	30	18	-	17,7 (0.697)	461 (310)
CV30XW16_81000_NE	30	16	-	19,3 (0.760)	634 (426)
CV30XW14_81000_NE	30	14	-	22,7 (0.894)	948 (637)
CV30XW12_81000_NE	30	12	-	26,2 (1.031)	1368 (919)
CV37XW18_81000_NE	37	18	-	19,0 (0.748)	552 (371)
CV37XW16_81000_NE	37	16	-	22,4 (0.882)	821 (552)
CV37XW14_81000_NE	37	14	-	24,6 (0.969)	1140 (766)
CV37XW12_81000_NE	37	12	-	28,1 (1.106)	1637 (1100)

* In accordo a NFPA 70 (NEC), questo articolo è Tray Cable (TC) ma non Exposed Run (ER).

* According to NFPA 70 (NEC) this article is Tray Cable (TC) but not Exposed Run (ER).

Composizione del codice - Code composition

CV □□ X □□□ _81000_NE

Numero conduttori <i>Number of conductors</i>	Inserire <i>To be inserted</i>
2, ..., 25	02, ..., 25

Sezione <i>size</i>	Inserire <i>To be inserted</i>
2, 4, ..., 18 AWG	W02, W04, ..., W18
250, 350, 500 kcmil	X25, X35, X50