

SERIES
8160S

Tray Cable Instrumentation, TC-ER/CIC/MTW/WTTC/AWM



Nylon (THHN), Direct Burial, Sun Res

Posa fissa, schermati a coppie - Fixed application, multiple pairs, shielded



Impiego - Use

Cavi UL Listed schermati a coppie costruiti per gli usi specificati dall'ANSI/NFPA 79, dagli articoli 336, 392, 501 del ANSI/NFPA 70 "National Electrical Code" (NEC) e dal CSA C22.1 (CE Code). Sono cavi idonei all'impiego in Hazardous Locations in Class I, Division 2 ed essendo certificati 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 di protezione. Questi cavi sono oil resistant, sun resistant e possono essere utilizzati in presenza di umidità anche interrati (sono certificati Direct Burial secondo UL 1277); sono inoltre certificati Flexible Motor Supply Cable per azionamenti a velocità variabile e Wind Turbine Tray Cable (WTTC) per applicazioni eoliche.

Shielded UL Listed multiple pairs cables built for the uses specified by ANSI/NFPA 79, articles 336, 392, 501 of the ANSI/NFPA 70 "National Electrical Code" (NEC) and by CSA C22.1 (CE Code). They are cables suitable for use in Hazardous Locations in Class I, Division 2 and being certified Type TC-ER (Exposed Run) they can be installed in industrial plants for connections between cable trays and equipment without the use of conduits/tubings. These cables are oil resistant, sun resistant and can be used in the presence of humidity even buried (they are certified Direct Burial according to UL 1277); they are also certified Flexible Motor Supply Cable for variable speed drives and Wind Turbine Tray Cable (WTTC) for wind turbine applications.

Informazione. Si effettua, su richiesta, un servizio aggiuntivo di taglio a misura certificato UL ("Processed Wire").
Information. An additional UL certified cut-to-length service is carried out on request ("Processed Wire").

Dati tecnici - Technical data

Caratteristica - Characteristics	Valore/proprietà - Value/property
Conduttore <i>Conductor</i>	Trefolo flessibile in rame, ASTM B3, ASTM B174 <i>Flexible copper strand, ASTM B3, ASTM B174</i>
Isolamento <i>Insulation</i>	PVC/Nylon (THHN)
Distinzione conduttori <i>Conductor distinction</i>	Neri e bianchi a coppie, numerati <i>Numbered black and white pair</i>
Riempitivi <i>Fillers</i>	Eventuali riempitivi centrali o laterali <i>Central or side fillers, if any</i>
Schermatura sulle coppie <i>Shield on pairs</i>	Alluminio/poliestere, ricopertura 100% + Drain wire <i>Aluminum/polyester, coverage 100% + Drain wire</i>
Schermatura <i>Shield</i>	Alluminio/poliestere, ricopertura 100% + Drain wire <i>Aluminum/polyester, coverage 100% + Drain wire</i>
Guaina <i>Jacket</i>	Miscela di PVC antiolio, colore nero. Marcatura metrica. <i>PVC compound, oil-resistant, black color. Metric marking.</i>
Temperatura di esercizio <i>Temperature range</i>	+75°C (wet cond.), +90°C (dry cond.), +105°C (AWM) -40°C (posa fissa); -5°C (posa mobile non ciclica) -40°C (fixed); -5°C (not fixed)
Tensione nominale <i>Voltage rating</i>	600 V (TC/CIC/MTW), 1000 V (AWM/WTTC), 600/1000 V (IEC)
Tensione di prova <i>Test voltage</i>	6000 V
Raggio di curvatura <i>Bending radius</i>	6 volte diametro esterno del cavo (posa fissa) 20 volte diametro esterno del cavo (posa mobile non ciclica) <i>6 x cable outer diameter (fixed) 20 x cable outer diameter (not fixed)</i>
Riferimenti normativi costruttivi <i>Standards of construction</i>	UL/CSA approvals: (UL) Type TC-ER (18 AWG-1000 kcmil), MTW, WTTC, Dir Bur, Sun Res, Oil Res I, Oil Res II, c(UL) TC-ER (18 AWG-1000 kcmil), CIC (18 AWG-4/0 AWG), Dir Bur, Sun Res, Oil Res; c(CSA)us AWM I/II A/B; Class 1, Div.2 NEC Art. 336, 392, 501; CSA C22.1 Tab.19; UL 1581, UL 1277, UL 1063, UL 2277, CSA C22.2 No.230-09 e No. 239-09 Flame res.: FT4, IEEE 1202 Other: Low Voltage Directive (LVD) 2014/35/EU
Riferimenti normativi d'impiego <i>Standards of use</i>	NFPA 79, NFPA 70 (NEC), UL 508a, CSA C22.1 (CE Code), CSA C22.2 No.286

Marcatura - Marking

TEKIMA 8160S - CE (4X(2X0,823)) mm² (UL) E361258 TC-ER (4X(2X18)) AWG DIR BUR SUN RES OIL RES I OIL RES II 600V THHN 90°C Dry / 75°C Wet FT4/IEEE 1202 or WTTC or FLEXIBLE MOTOR SUPPLY CABLE 1000V 90°C Dry or MTW 600V c(UL) CONTROL CABLE CIC/TC-ER SUN RES OIL RES 600V 90°C Dry / 75°C Wet PVC/Nylon SHIELDED FT4 - CSA 608137 AWM I/II A/B 105°C 1000V FT1 18 AWG - (prod.reference) = (metric) =

Code <i>Code</i>	Numero di conduttori <i>Number of conductors</i>	Sezione <i>Size [mm²]</i>	Sezione <i>Size [AWG]</i>	Diametro <i>Diameter [mm (inch)]</i>	Peso <i>Weight [kg/km (lb/mft)]</i>
CV012W18_8160S_□□ **	1 X 2	18	0,823	8,1 (0.319)	92 (62)
CV022W18_8160S_□□	2 X 2	18	0,823	12,8 (0.504)	201 (135)
CV032W18_8160S_□□	3 X 2	18	0,823	14,3 (0.562)	260 (175)
CV042W18_8160S_□□	4 X 2	18	0,823	15,5 (0.609)	309 (208)
CV062W18_8160S_□□	6 X 2	18	0,823	18,1 (0.713)	419 (282)
CV082W18_8160S_□□	8 X 2	18	0,823	19,7 (0.774)	517 (347)

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

Codice Code	Numero di conduttori Number of conductors	Sezione Size [mm ²]	Sezione Size [AWG]	Diametro Diameter [mm (inch)]	Peso Weight [kg/km (lb/mft)]
CV102W18_8160S_□□	10 X 2	18	0,823	23,9 (0.940)	709 (476)
CV122W18_8160S_□□	12 X 2	18	0,823	24,6 (0.969)	777 (522)
CV162W18_8160S_□□	16 X 2	18	0,823	27,1 (1.066)	954 (641)
CV202W18_8160S_□□	20 X 2	18	0,823	29,2 (1.148)	1122 (754)
CV242W18_8160S_□□	24 X 2	18	0,823	33,2 (1.307)	1409 (947)
CV362W18_8160S_□□	36 X 2	18	0,823	37,8 (1.487)	1887 (1268)
CV502W18_8160S_□□	50 X 2	18	0,823	45,8 (1.804)	2685 (1804)
CV012W16_8160S_□□ **	1 X 2	16	1,31	8,8 (0.347)	114 (76)
CV022W16_8160S_□□	2 X 2	16	1,31	15,0 (0.590)	274 (184)
CV032W16_8160S_□□	3 X 2	16	1,31	15,8 (0.623)	325 (219)
CV042W16_8160S_□□	4 X 2	16	1,31	17,2 (0.678)	391 (263)
CV062W16_8160S_□□	6 X 2	16	1,31	20,4 (0.805)	555 (373)
CV082W16_8160S_□□	8 X 2	16	1,31	23,0 (0.907)	715 (480)
CV102W16_8160S_□□	10 X 2	16	1,31	26,8 (1.053)	909 (611)
CV122W16_8160S_□□	12 X 2	16	1,31	27,6 (1.086)	1003 (674)
CV162W16_8160S_□□	16 X 2	16	1,31	30,7 (1.207)	1278 (859)
CV202W16_8160S_□□	20 X 2	16	1,31	33,1 (1.303)	1509 (1014)
CV242W16_8160S_□□	24 X 2	16	1,31	37,5 (1.478)	1847 (1241)
CV362W16_8160S_□□	36 X 2	16	1,31	44,4 (1.746)	2643 (1776)
CV502W16_8160S_□□	50 X 2	16	1,31	51,9 (2.042)	3553 (2387)

** In accordo a NFPA 70 (NEC) e CSA C22.1 (CEC) cavi con 2 conduttori non sono Exposed Run (ER).

** According to NFPA 70 (NEC) and CSA C22.1 (CEC) cables with 2 conductors are not Exposed Run (ER).

Composizione del codice - Code composition

