

SERIES
8130S

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

Direct Burial, Sun Res, XLPE

Fixed application, multiple pairs, shielded



Use

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.

Information. An additional UL certified cut-to-length service is carried out on request ("Processed Wire").

Technical data

Characteristics	Value/property
Conductor	Flexible copper strand, class 5
Insulation	Special XLPE (type XHHW-2)
Conductor distinction	Numbered black and white pairs
Fillers	Central or side fillers, if any
Shield on pairs	Aluminum/polyester, coverage 100% + Drain wire
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Jacket	PVC compound, oil-resistant, black color. Metric marking.
Temperature range	+90°C (dry and wet conditions) -40°C (fixed); -5°C (not fixed)
Voltage rating	600 V (TC/CIC/MTW), 1000 V (WTTC), 600/1000 V (IEC)
Test voltage	6000 V
Bending radius	6 x cable outer diameter (fixed) 20 x cable outer diameter (not fixed)
Standards of construction	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; Class 1, Div.2 NEC Art. 336, 392, 501; CSA C22.1 Tab.19; UL 1277, UL 1063, UL 2277, CSA C22.2 No.230-09 e No. 239-09 Flame res.: FT4/IEEE UL 1685 UV res.: UNI EN ISO 4892-3 (gray), UNI EN ISO 4892-2 (black) Other: Low Voltage Directive (LVD) 2014/35/EU
Standards of use	NFPA 79, NFPA 70 (NEC), UL 508a, CSA C22.1 (CE Code), CSA C22.2 No.286

Marking

TEKIMA 8130S – CE (4X(2X1,5)) mm² 600/1000 V - (UL) E361258 TC-ER (4X(2X16)) AWG DIR BUR SUN RES OIL RES 600V XHHW-2 90°C Dry / 90°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 DIR BUR SUN RES OIL RES 600V 90°C Dry / 90°C Wet XLPE SHIELDED FT4 – (prod.reference) = (metric) =

Coding and dimensions

Code	Number of conductors	Size [AWG]	Size [mm ²]	Diameter [mm (inch)]	Weight [kg/km (lb/mft)]
CV012100_8130S_□□**	1 X 2	18	1	7,9 (0.311)	78 (53)
CV022100_8130S_□□	2 X 2	18	1	10,9 (0.429)	152 (102)
CV032100_8130S_□□	3 X 2	18	1	12,6 (0.496)	193 (130)
CV042100_8130S_□□	4 X 2	18	1	14,4 (0.567)	270 (181)
CV062100_8130S_□□	6 X 2	18	1	17,1 (0.673)	369 (248)
CV082100_8130S_□□	8 X 2	18	1	18,4 (0.724)	464 (312)
CV102100_8130S_□□	10 X 2	18	1	20,1 (0.791)	499 (335)
CV122100_8130S_□□	12 X 2	18	1	22,9 (0.902)	642 (431)
CV162100_8130S_□□	16 X 2	18	1	25,8 (1.016)	824 (553)
CV202100_8130S_□□	20 X 2	18	1	28,3 (1.114)	1009 (678)
CV242100_8130S_□□	24 X 2	18	1	30,6 (1.205)	1131 (760)
CV012150_8130S_□□**	1 X 2	16	1,5	8,5 (0.335)	93 (62)

Code	Number of conductors	Size [AWG]	Size [mm ²]	Diameter [mm (inch)]	Weight [kg/km (lb/mft)]
CV022150_8130S_□□	2 X 2	16	1,5	11,8 (0.465)	184 (123)
CV032150_8130S_□□	3 X 2	16	1,5	14,3 (0.563)	265 (178)
CV042150_8130S_□□	4 X 2	16	1,5	15,6 (0.614)	328 (220)
CV062150_8130S_□□	6 X 2	16	1,5	18,6 (0.732)	453 (304)
CV082150_8130S_□□	8 X 2	16	1,5	20,0 (0.787)	574 (385)
CV102150_8130S_□□	10 X 2	16	1,5	23,0 (0.906)	682 (458)
CV122150_8130S_□□	12 X 2	16	1,5	24,8 (0.976)	791 (531)
CV162150_8130S_□□	16 X 2	16	1,5	28,0 (1.102)	1021 (686)
CV202150_8130S_□□	20 X 2	16	1,5	30,9 (1.217)	1260 (846)
CV242150_8130S_□□	2 X 2	16	1,5	33,4 (1.315)	1418 (953)

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

Code composition

