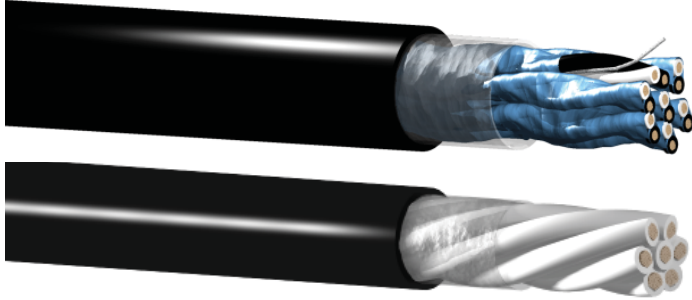


NHEX-FLEX TC-ER • Halogen Free Tray Cables



TRI-RATED UL, CSA, IEC MARINE “TC-ER” - “Exposed Runs” 600V, 90C

SCOPE:

Halogen-free 600V Tri-Rated UL, CSA, IEC certified “TC” Instrumentation and control cable, suitable for use in cable tray application, hazardous locations, Class 1 Div 2 panel, indoor/outdoor, wet or dry locations or offshore marine applications.

SHIELD(S):

Aluminum/mylar 100% coverage with stranded tin copper drain wires. Individual shielded pairs and triads have an adhesive mylar tape shield isolation layer. Overall shields may be special ordered, add to the end of P/N “A” for alum/my or “B” for tc braid

CONDUCTORS:

Stranded tinned copper per ASTM B -3 -33 class C IEC 60228. Available sizes from 18awg to 4/0, (1.0mm² to 100mm²)

INSULATION:

XLPE Cross-linked polyolefin, 600/1kv rated, 90C dry, 75C wet, meeting requirements of UL-44 type XHHW

JACKET/SHEATH:

Black halogen-free olefinic flexible elastomer, flame retardant, oil, vapor, moisture, and sunlight resistant.
* Other colors available - custom order

OTHER APPLICATIONS:

Instrumentation Pairs, Triads, OAS, IS+OAS
Power & Control, 18awg-4/0 (1.0mm-100mm²)
VFD Cable dual shielded with grounds & signal wires
“TC-ER-HL” Certification available per NEC Hazardous locations Class 1 Zone 1 cables up to 1” max diameter
*Note:TC-ER cables with 3 conductors or less will have green insulated ground wire

RATINGS:

Type	Standard	Application
US TC Tray Cable 90C dry, 75C wet 600V	UL 1277	NEC Art. 336 Class 1 Div 2
US TC-ER (For TC-ER-HL see page 2)	UL 1277 Crush & Impact	NEC TC “Exposed Runs”
US ITC, ITC-ER, 105C 300V*	UL 2250 Crush & Impact	NEC Art. 727
CSA TC Tray cable 90C 600V	CSA 22.2 No.230	CEC TC
CSA CIC Control & Instrumentation	CSA 22.3 No.239	CEC CIC
Marine Offshore 90C 600v/1kv	IEC 60092-350, -353, -359, 60028	DNV Type certification Offshore Marine

Features

Flame test	CSA FT-4, IEC 332-3-22
Sunlight Resistant (SR)	UL 1277
Halogen-Free	IEC 60754-1
Oil resistant	IEC 60092-359 SHF1
Restricted gas breathing	IEC 60079-14 2015
CE	2006/95/EC Low Voltage Directive
RoHS	2011/65/EU

* ITC is 300V listed, if dual rated with “TC-ER”, is marked 600V.



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Halogen Free Tray Cables

Nhex-Flex TC

Multiconductor: “Nhex-Flex® TC” 600V 90C Power & Control Cable

- Unshielded 18awg, 16awg, 14awg, 12awg, 10awg, 8awg, 6awg
- Shielded OA Alm 18awg, 16awg, 14awg, 12awg, 10awg, 8awg, 6awg

Instrumentation: “Nhex-Flex® TC” 600V 90C Instrumentation Cable ISP/OS

- Shielded Pairs 18awg, 16awg, 14awg, 12awg
- Shielded Triads 18awg, 16awg, 14awg, 12awg
- Thermocouple Extension Cable
- Shielded Pairs 18awg, 16awg, KX, NX

VFD Power Cables: “Nhex-Flex® TC” & “TC-ER” 600V 90C Power & Control Cable

- Dual Shield TC/Braid+ Alm, Symmetrical grounds or with Insulated grounds
- Low dielectric constant XLPE

Nhex-Flex TC-ER “Exposed Runs”

Multiconductor: “Nhex-Flex® TC-ER” 600V 90C Power & Control Cable

- Unshielded 18awg, 16awg, 14awg, 12awg, 10awg, 8awg, 6awg
- Shielded OA Alm 18awg, 16awg, 14awg, 12awg, 10awg, 8awg, 6awg

Instrumentation: “Nhex-Flex® TC-ER” 600V 90C Instrumentation Cable ISP/OS

- Shielded Pairs 18awg, 16awg, 14awg, 12awg
- Shielded Triads 18awg, 16awg, 14awg, 12awg
- Thermocouple Extension Cable
- Shielded Pairs 18awg, 16awg, KX, NX

Tray Cable “ITC” 300V “Open Wiring”

Nhex-Flex TC or TC-ER 600V cables can be dual rated with UL 2250 “ITC”

Nhex-Flex TC-ER-HL

Cable diameters of 1” and less may be special ordered TC-ER-HL, suitable for Class I, Zone 1 in accordance with NEC Art. 505 and Class I Division 1 in accordance with NEC Art. 501.

