

**Contact**

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## ULTREX® XL TC - Unshielded 3 or 4 Conductors With Ground

ULTREX® XL TC - Unshielded 4 Conductors with Ground

Part Number: ULTREX® XL TC - Unshielded 4 Conductors with Ground

Type XHHW-2: UL Type TC, 600 V, 90°C dry / wet rated - LEAD FREE - Exposed Run (ER) Rated

### Description

#### Applications

Nexans 600 V Ultrex XL Tray Cables are listed as type TC under UL 1277 Electrical Power and Control Cables. These cables may be installed in wet or dry locations; in cable trays, raceways and open air; and are suitable for exposure to weather, direct burial and for Class I, Div. 2 (also Zone 2) and Class II, Div. 2 hazardous locations per NEC.

Cables with 3 or more conductors are UL listed for exposed runs (ER) when installed in accordance with NEC Article 336.10(7).

#### Construction

##### Conductor:

Bare, annealed copper conforming to ASTM B3 and Class B stranded in accordance with ASTM B8, from #14 AWG to 1000 kcmil.

##### Insulation:

Flame-retardant cross-linked polyethylene meeting the requirements for XHHW-2 per UL 44 and the requirements of ICEA S-95-658 for XLPE insulation as standard. Sizes #14 AWG to #8 AWG are VW-1, and sizes #6 AWG and larger are non-VW-1.

##### Assembly:

Conductors are cabled in concentric layers with interstices filled with suitable fillers, as required. A binder tape of synthetic material assembles the core in a tight circular configuration. Ground wires are sized as required by UL 1277. Sizes #14 AWG to #6 AWG have an insulated green ground wire. Sizes #4 AWG and larger have a bare ground wire.

##### Jacket:

UL listed sunlight and moisture resistant, sequentially length marked, black polyvinyl chloride (PVC) material meeting the requirements of UL 1277.

### Standards

National ICEA S-73-532;  
ICEA S-95-658; UL 1277; UL 44

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### Characteristics

#### Construction characteristics

Number of conductors

4

### ULTREX® XL - UNSHIELDED TRAY CABLE - 4 CONDUCTORS WITH GROUND

Type XHHW-2: UL Type TC, 600 V, 90°C dry / wet rated - LEAD FREE - Exposed Run (ER) Rated

Part Number	Cond.Size	Ground Size	Insulation Thickness		Jacket Thickness		Nominal Diameter over Jacket		Approximate Net Cable Weight		Ampacity(1)
	(AWG/kcmil)	(AWG)	mils	mm	mils	mm	inches	mm	lb/kft	kg/km	amps
619403	10	10	30	0.76	60	1.52	0.604	15.33	269	401	40*
306837	8	10	45	1.14	60	1.52	0.734	18.65	392	582	55
306852	6	8	45	1.14	80	2.03	0.890	22.59	595	885	75
659334	4	8	45	1.14	80	2.03	0.950	24.13	792	1177	95
-----	3	6	45	1.14	80	2.03	1.035	26.29	1023	1523	110
603209	2	6	45	1.14	80	2.03	1.093	27.76	1176	1751	130
-----	1	6	55	1.40	80	2.03	1.219	30.96	1470	2187	150
-----	1/0	6	55	1.40	80	2.03	1.310	33.27	1772	2637	170
-----	2/0	6	55	1.40	80	2.03	1.417	36.00	2151	3200	195
-----	3/0	4	55	1.40	80	2.03	1.536	39.01	2667	3969	225
-----	4/0	4	55	1.40	80	2.03	1.657	42.09	3243	4827	260
-----	250	4	65	1.65	110	2.79	1.881	47.78	3928	5845	290
-----	300	3	65	1.65	110	2.79	2.012	51.10	4639	6903	320
-----	350	3	65	1.65	110	2.79	2.119	53.82	5300	7887	350
-----	400	3	65	1.65	110	2.79	2.232	56.69	6003	8933	380
-----	500	2	65	1.65	110	2.79	2.426	61.62	7391	10998	430

Bend Radius: 5 x overall diameter installed (up to 2.0") / 6 x overall diameter installed (over 2.0")  
8 x overall diameter during installation pull-in.

**Notes:**

Dimensions and weights shown are nominal values. They are subject to standard industry tolerances.  
Cables with different conductor counts are also available.

(1) Ampacities are in accordance with Table 310.16 of NEC for conductors in raceway or direct buried at 30°C ambient temperature and 90°C conductor temperature.

For correction factors for different ambient temperatures and ampacities at different conductor temperatures see Table 310.16 of NEC.

Ampacities for cables where the fourth conductor is the neutral in a balanced three-phase, four wire system.

\* NEC 240.4(D) requires that overcurrent protection not exceed 30 amperes for 10 AWG copper conductors. Exceptions to this may be covered in NEC 240.4(E) through (G).

### Selling delivery information

#### OPTIONS

The following constructions can be provided on special orders:

- \* Aluminum alloy conductors in sizes #12 AWG to 1000 kcmil
- \* Different conductor identification methods
- \* Different conductor counts
- \* Shields of aluminum/mylar tape (with or without a tinned copper drain wire)
- \* Oil Resistant I or Oil Resistant II jackets

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\* CPE jacket

\* Composite constructions of different sized conductors.

\* Use in Hazardous locations:

Please note that no investigation of these cables has been performed regarding the transmission of gases or vapors through the core. When these cables are used in hazardous locations they should be sealed properly as required by the NEC.