

ULTREX® VN Unshielded Tray Cable Type TFN

ULTREX® VN Unshielded Tray Cable 18 AWG**Part Number: ULTREX® VN Unshielded Tray Cable 18 AWG**

Type TFN: UL Type TC, 600 V, rated 90°C dry and wet - LEAD FREE - Exposed Run (ER) Rated**

Description

Applications

Nexans 600 V Ultrex VN Tray Cables are listed as type TC under UL 1277 Electrical Power and Control Cables. TFN PVC/Nylon cables #18 and #16 meet UL 66 Fixture Wire. 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 B8, for #18 AWG and #16 AWG.

Insulation:

Flame-retardant PVC/Nylon type TFN per UL 66 for #18 AWG and #16 AWG.

Assembly:

Insulated conductors in non-shielded cables with 3 or more conductors are assembled into concentric layers. Fillers are inserted into interstices and a binder tape of synthetic material is used to assemble the core in a tight circular configuration. Two-conductor cables are supplied in a flat/parallel configuration.

Jacket:

UL listed sunlight and moisture resistant, black, flame retardant polyvinyl chloride (PVC) material meeting the requirements of UL 1277. A Nylon ripcord is included for ease of jacket removal. Jacket surface is printed with required UL / NEC code information and sequential footgauge markings.

Conductor Identification:

#18 AWG and #16 AWG: color coded per Method #1-E2 per ICEA S-73-532

See links below for Conductor Identification Charts.



Standards

National

ICEA S-73-532;UL 1277;UL 66

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Characteristics

Dimensional characteristics

Conductor cross-section (AWG)

18

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Multiconductor 18 AWG Type TFN - Insulation Thickness: 15 mils / .38mm PVC, 4 mils / .10mm Nylon

Part Number	# of Conductors	Jacket Thickness		Nominal Diameter over Jacket		Approximate Net Cable Weight		Ampacity
		mils	mm	inches	mm	lb/kft	kg/km	
697151	2 Flat	45	1.14	.180 x .270	4.57 x 6.86	35	52	6.0
697359	3	45	1.14	0.288	7.31	45	67	6.0
697169	4	45	1.14	0.311	7.91	54	80	4.8
627448	5	45	1.14	0.337	8.56	66	98	4.8
627273	6	45	1.14	0.364	9.25	76	113	4.8
627281	7	45	1.14	0.364	9.25	82	122	4.2
-----	8	45	1.14	0.392	9.95	92	137	4.2
627901	9	45	1.14	0.421	10.69	108	160	4.2
669127	10	45	1.14	0.448	11.37	117	175	3.0
-----	11	45	1.14	0.454	11.53	122	182	3.0
697367	12	45	1.14	0.468	11.87	131	195	3.0
-----	13	45	1.14	0.476	12.08	139	207	3.0
-----	14	45	1.14	0.491	12.47	148	220	3.0
697177	15	45	1.14	0.504	12.79	184	274	3.0
697375	19	60	1.52	0.574	14.58	210	312	3.0
-----	20	60	1.52	0.590	14.99	217	323	3.0
697383	25	60	1.52	0.658	16.71	272	405	2.7
-----	30	60	1.52	0.701	17.80	308	458	2.7
626994	37	60	1.52	0.754	19.15	380	564	2.4
-----	40	60	1.52	0.782	19.86	397	591	2.4
-----	45	60	1.52	0.867	22.02	442	658	2.1
-----	50	80	2.03	0.898	22.80	516	768	2.1

Bend Radius: 5 x overall diameter installed / 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.

Ampacities are in accordance with NEC Table 336.80, and Table 402.5 "Allowable Ampacity for Fixture Wires" at an ambient temperature of 30°C (with no load diversity). Ampacity for cables having more than three conductors have been derated as stated in NEC 392.11, using the derating factors of NEC 310.15(B)(2)(a).

For ampacities at different conductor or ambient temperatures, refer to the "correction factor" section of NEC Table 310.16.

Refer to NEC Article 240.4(D) for overcurrent protection requirements.

Selling delivery information

OPTIONS

The following constructions can be provided on special orders:

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- * Dow Construction
- * DuPont Construction
- * Composite Cable Construction
- * Insulated Green Ground
- * Different conductor identification methods

* 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.