

## TC - TYPE (THHN/THWN) Individual & Overall Shielded Pairs



### Areas of Use

UL-approved, flexible cables for use up to 600 V cables are installed in cable trays, ducts, and conduit. They are used in manufacturing facilities, for all machines, tools and installation work, industries such as petrochemical. Suitable for use in dry, damp and wet areas, outside, in cable ducts, open cable trays.

### Cable Construction

<b>Conductor</b>	Solid or Stranded Annealed Copper (ASTM B3, stranding per ASTM B8)
<b>Insulation</b>	PVC / Nylon (UL 1581 Class 90 °C, EN 50363-3 T13). UL 83 for THHN or THWN, UL 66 for TFN or TFFN
<b>Core Colors</b>	Pair: Black / White, Numbered, Triples: Black / White / Red, Numbered
<b>Insulated Conductors</b>	AWG16 & AWG18 - Types TFN and TFFN, AWG14 & Larger - THHN and THWN
<b>Individual Separators</b>	PET Foil
<b>Individual Screen</b>	Al-PET Foil (with 0.60 mm Tinned Copper Drain Wire)
<b>Lay-up</b>	Shielded pairs / triples are stranded in layers
<b>Separator</b>	PET Foil
<b>Overall Screen</b>	Al-PET Foil (with 7x0.3 mm Tinned Copper Drain Wire)
<b>Outer Sheath</b>	PVC Jacket (UL 1581 Class 90 °C). The thickness of the overall jacket is in accordance with the UL1277
<b>Reference Standards</b>	UL 1277, UL 83, UL 1685, CSA C22.2 NO. 239, NEC Article 336

### Technical Properties

<b>Operating Voltage</b>	600 V
<b>Test Voltage</b>	2.5 kV
<b>Dielectric Voltage Withstand</b>	UL 1277
<b>Short Term Insulation Resistance In Water At 15 °C</b>	UL 2556
<b>Max. Operating Temperature</b>	THHN or THWN 90 °C dry 75 °C wet, TFN and TFFN 90 °C dry
<b>Flame Retardancy</b>	CSA FT4, UL 1685, IEC/EN 60332-1, IEC 60332-3-24 (CAT C)
<b>Oil Resistance</b>	ASTM No 2 oil 70 °C 4 hours (IEC / EN 60811- 404)
<b>Sunlight Resistance</b>	Acc. to UL 1581, Sec. 1200
<b>Cold Bend Rated</b>	-40
<b>Flexibility Test After Aging</b>	UL 2556
<b>Deformation Resistance</b>	UL 2556
<b>Min. Bending Radius (Fixed)</b>	7.5 x Cable Diameter

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