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

Conductor	Solid or Stranded Annealed Copper (ASTM B3, stranding per ASTM B8)
Insulation	PVC / Nylon (UL 1581 Class 90°C, EN 50363-3 TI3). UL 83 for THHN or THWN, UL 66 for TFN or TFFN
Core Colors	Pair: Black / White, Numbered, Triples: Black / White / Red, Numbered
Insulated Conductors	AWG16 & AWG18 - Types TFN and TFFN, AWG14 & Larger - THHN and THWN
Individual Seperaor	PET Foil
Individual Screen	Al-PET Foil (with 0.60 mm Tinned Copper Drain Wire)
Lay-up	Shielded pairs / triples are stranded in layers
Separator	PET Foil
Overall Screen	Al-PET Foil (with 7x0.3 mm Tinned Copper Drain Wire)
Outer Sheath	PVC Jacket (UL 1581 Class 90°C). The thickness of the overall jacket is in accordance with the UL1277
Reference Standards	UL 1277, UL 83, UL 1685, CSA C22.2 NO. 239, NEC Article 336

Technical Properties

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

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