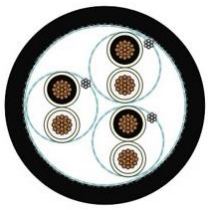
TC - TYPE (THHN/THWN) Individual Shielded Pairs Braided





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
Screen	Tinned Copper Wire Braid
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

Cross Section

Configuration / Cross-Section (AWG)	Cable Diameter (mm) (± 5%)	Copper Weight (kg / km)	~ Cable Weight (kg / km)

2x2x18	14.3	30	211
2x2x16	15.6	23	225
2x2x14	16.8	37	257
2x2x12	18.6	59	307
3x2x18	13.2	22	196
3x2x16	15.1	35	254
3x2x14	16.3	56	291
3x2x12	18.0	89	353
4x2x18	15.1	30	264
4x2x16	16.5	47	305
4x2x14	17.8	75	353
4x2x12	20.0	119	456
5x2x18	16.5	37	305
5x2x16	17.9	59	355
5x2x14	19.6	94	435
5x2x12	22.9	149	592

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