

THHN/THWN 90°C, 600 V, UL listed, PVC + nylon single core**Technical data**

- PVC + Nylon insulated single cores as per UL-Styles and NEC standard
- **Temperature range** as per Styles
THHN: 90°C dry - NEC standard
THWN: 75°C wet - NEC standard
AWM: UL-Styles 1316 to 1321
 105°C dry
 80°C in oil
AWM: UL-Styles 1452, 1453
 90°C dry
 80°C in oil 1000 V
MTW: UL-Styles 1408 to 1414
 90°C dry
 80°C in oil 600 V
- **Nominal voltage** 600 V
- **Minimum bending radius**
 8x core Ø
- **Test voltage** (Spark test)
 AWG 14 to AWG 10 = 7,5 kV
 AWG 8 to AWG 2/0 = 10 kV
 AWG 3/0 to AWG 4/0 = 12,5 kV
 kcmil 250 to kcmil 500 = 15 kV
 kcmil 600 to kcmil 1000 = 17,5 kV

Cable structure

- Bare copper conductor, AWG-sizes as per given table below and ASTM B-3 and ASTM B-8
- Core insulation of PVC and Nylon-outer-sheath
- Cores colour coded, colour identification see below
- Surface of sheath printed with markings:
 14 to 1000 MCM THHN (stranded) - (size) AWG Type MTW OR THHN OR THWN 600 V OR GASOLINE AND OIL RESTSTANT II (UL) OR AWM W-5 1554
 14 to 10 AWG THHN (solid) - (size) AWG TYPE THHN OR THWN 600 V OR GASOLINE AND OIL RESISTANT II (UL) OR AWM

Properties**Resistant against**

- Oils
- Gasoline
- Water
- Acids
- Ozone
- Lyes
- Sunlight
- Abrasion

Note

- 1 kcmil = 1000 circ mils = 0,5067 mm².
- Please complete the part number for these cables by adding the suffix for the colour required as per the list:
 0 = green
 1 = black
 2 = blue
 3 = brown
 4 = red
 5 = white
 6 = grey
 7 = yellow
 8 = orange
 9 = pink

Application

As flexible connecting cable in machines, switch and distribution cabinets, cable assemblies and for fixed indoor installation, in tubes and in cable conduits.

AWM = Appliance Wiring Material

For internal wirings for electrical equipment and control apparatus e. g. radio and televisions, electronic assembly component.

MTW = Machine Tool Wire

For the electrical installation of machine tools and the relative control. THW = Thermoplastic PVC-insulated building wire, Heat resistant 75°C, for Wet and dry locations, flame retardant. THHN = Thermoplastic PVC-insulated building wire, Nylon sheathed, 90°C 600 V, for dry and damp locations.

☞ The product is conformed with the EC Low-Voltage Directive 2006/95/EC.

Part no.	Cross-section mm ²	AWG-No.	Cond. make-up n x wire Ø	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km
6320x	2,08	14	19 x 0,38	3,0	20,7	25,0
6321x	3,32	12	19 x 0,48	3,4	33,0	37,0
6322x	5,26	10	19 x 0,6	4,3	51,6	60,0
6323x	8,35	8	19 x 0,75	5,5	80,6	95,0
6324x	13,39	6	19 x 0,96	6,6	125,0	143,0
6325x	21,14	4	19 x 1,19	8,4	201,0	229,0
6326x	26,65	3	19 x 1,336	9,1	253,0	282,0
6327x	33,61	2	19 x 1,5	10,0	317,0	349,0
6328x	42,38	1	19 x 1,686	11,4	399,0	449,0
6329x	53,47	1/0	19 x 1,89	12,4	500,0	557,0
6330x	67,4	2/0	19 x 2,126	13,7	631,0	691,0
6331x	84,97	3/0	19 x 2,387	15,0	792,0	861,0
6332x	107,17	4/0	19 x 2,68	16,5	996,0	1069,0

Part no.	Cross-section mm ²	AWG-No.	Cond. make-up n x wire Ø	Outer Ø app. mm	Cop. weight kg / km	Weight app. kg / km
63331	127	250 kcmil	37 x 2,088	18,29	1178,0	1277,0
63341	152	300 kcmil	37 x 2,286	19,56	1410,0	1515,0
63351	178	350 kcmil	37 x 2,47	21,08	1645,0	1753,0
63361	203	400 kcmil	37 x 2,7	22,35	1902,0	1998,0
63371	254	500 kcmil	37 x 2,95	24,13	2345,0	2466,0
63381	304	600 kcmil	61 x 2,52	26,75	2920,0	3000,0
63391	380	750 kcmil	61 x 2,82	29,36	3658,0	3713,0
63401	507	1000 kcmil	61 x 3,25	33,27	4858,0	4796,0

Dimensions and specifications may be changed without prior notice. (RN06)