

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



Technical data

- PVC + Nylon insulated single cores as per UL-Styles und 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+Nylon-outer-sheath
- Cores colour coded, colour identification see below
- Surface of jacket 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-51554
 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 above part number for the colour required, using the following code:
 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 = **A**pliance **W**iring **M**aterial / For internal wrings for electrical equipment and control apparatus e.g. radio and televisions, electronic assembly component.

MTW = **M**achine **T**ool **W**ire / For the electronical installation of machine tools and the relative control.

THW = Thermoplastic PVC-insulated building wire, **H**eat resistant 75°C, for **W**et and dry locations, flame retardant.

THHN = Thermoplastic PVC-insulated building wire, **N**ylon jacketed, 90°C 600 V, for dry and damp locations.

CE = The product is conformed with the EC Low-Voltage Directive 2006/95/EG.

Part No.	Cross-sec. mm ²	AWG-no.	AWG size	Cond. make-up n x wire ø	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km
6320x	2,08	14	0,0147	19 x 0,38	3,0	20,7	25,0
6321x	3,32	12	0,0185	19 x 0,48	3,4	33,0	37,0
6322x	5,26	10	0,0234	19 x 0,6	4,3	51,6	60,0
6323x	8,35	8	0,0295	19 x 0,75	5,5	80,6	95,0
6324x	13,39	6	0,0378	19 x 0,96	6,6	125,0	143,0
6325x	21,14	4	0,0469	19 x 1,19	8,4	201,0	229,0
6326x	26,65	3	0,053	19 x 1,336	9,1	253,0	282,0
6327x	33,61	2	0,0591	19 x 1,5	10,0	317,0	349,0
6328x	42,38	1	0,0664	19 x 1,686	11,4	399,0	449,0
6329x	53,47	1/0	0,0745	19 x 1,89	12,4	500,0	557,0
6330x	67,4	2/0	0,0837	19 x 2,126	13,7	631,0	691,0
6331x	84,97	3/0	0,094	19 x 2,387	15,0	792,0	861,0
6332x	107,17	4/0	0,1055	19 x 2,68	16,5	996,0	1069,0

Part No.	Cross-sec. mm ²	AWG-no.	AWG size	Cond. make-up n x wire ø	Outer ø ca. mm	Cop. weight kg / km	Weight ca. kg / km
63331	127	250 kcmil	0,0822	37 x 2,088	18,3	1178,0	1277,0
63341	152	300 kcmil	0,09	37 x 2,286	19,6	1410,0	1515,0
63351	178	350 kcmil	0,0973	37 x 2,47	21,1	1645,0	1753,0
63361	203	400 kcmil	0,104	37 x 2,7	22,4	1902,0	1998,0
63371	254	500 kcmil	0,1162	37 x 2,95	24,1	2345,0	2466,0
63381	304	600 kcmil	0,0992	61 x 2,52	26,8	2920,0	3000,0
63391	380	750 kcmil	0,1109	61 x 2,82	29,4	3658,0	3713,0
63401	507	1000 kcmil	0,128	61 x 3,25	33,3	4858,0	4796,0

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