

Type THW PVC Insulated Wire

Polyvinyl chloride (PVC) / single conductor / 14 AWG to 500 KCMIL / 600V



Applications

Draka's Type THW cable is suitable for various commercial and industrial applications. These cables may be installed in wet or dry locations, indoors or outdoors, in raceways, underground ducts (ask about our preinstalled cable-in-conduit products), aerial or direct buried.

Draka's Type THW cable is NEC-compliant for continuous operations at 75° C in wet and dry locations.

Specifications and Ratings

- UL Type THW
- The insulation is suitable for use in wet or dry locations at a temperature not exceeding 75° C
- RoHS compliant
- Oil resistant I
- CT USE (#1/0 AWG and larger)

Design Parameters

CONDUCTORS: Class B, soft drawn, bare copper per ASTM B3 and ASTM B8. Both tinned copper conductors and extra-flexible conductors are available as options.

INSULATION: Heat and moisture resistant polyvinyl chloride (PVC) meeting the requirements of ICEA S-95-658 (NEMA WC 90) UL 83 for Type THW and wires. The insulation is suitable for use in wet or dry locations at a conductor temperature not exceeding 75° C for normal operation.

ASSEMBLY: Single conductor cables can be paralleled or multiplexed for more efficient installations. Single conductor cables can also be pre-installed in conduit.



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Conductor Size AWG (mm ²)	Strand Class	Strands	Nominal Insulation Thickness in (mm)	Nominal Cable O.D. in (mm)	Approximate Cable Weight Lbs/Mft (Kg/Km)
14 AWG (2.08)	Class B	7	.030 (0.72)	0.140 (3.6)	18 (27)
12 AWG (3.31)	Class B	7	.030 (0.72)	0.160 (4.1)	28 (42)
10 AWG (5.26)	Class B	7	.030 (0.72)	0.180 (4.6)	42 (63)
8 AWG (8.37)	Class B	7	.045 (1.1)	0.250 (6.3)	69 (103)
6 AWG (13.3)	Class B	7	.060 (1.5)	0.310 (7.9)	110 (164)
4 AWG (21.2)	Class B	7	.060 (1.5)	0.360 (9.1)	165 (246)
2 AWG (33.6)	Class B	7	.060 (1.5)	0.420 (10.7)	250 (373)
1/0 AWG (53.5)	Class B	19	.080 (2.0)	0.540 (13.7)	400 (597)
2/0 AWG (67.4)	Class B	19	.080 (2.0)	0.580 (14.7)	500 (746)
4/0 AWG (107)	Class B	19	.080 (2.0)	0.690 (17.5)	755 (1126)
250 KCMIL (127)	Class B	37	.095 (2.4)	0.770 (19.6)	900 (1342)
350 KCMIL (177)	Class B	37	.095 (2.4)	0.870 (22.1)	1235 (1842)
500 KCMIL (253)	Class B	37	.095 (2.4)	1.000 (25.4)	1725 (2573)

These cables are made in the USA, meeting ISO 9001 Quality Standard & 14001 Environmental Standard.

The data herein is approximate and subject to normal manufacturing tolerances. These specifications are subject to change without notice.