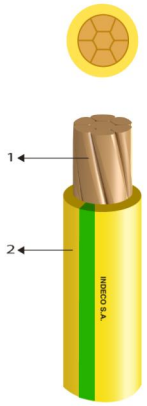
THW-90 450/750 V up to and including 10 mm2; Grounding conductor

THW-90 6 mm2



Nexans Ref.: P00016362-5
Country Ref.: 10043275

CONTACT

Local Sales
ventas.peru@nexans.com

APPLICATION

In fixed installations, in buildings, dry or wet indoor locations, control board connections and generally in all installations requiring a current capacity greater than TW-80 cable.

STANDARDS

PRODUCT

IEC 60228; NTP 370.252; NTP-IEC 60228

TEST

UL 2556

CONSTRUCTION

1. Conductor: Soft copper, class 2.

2. Insulation: Compound polyvinyl chloride PVC.

MAIN CHARACTERISTICS

Good dielectric strength, resistance to moisture, grease, oil and heat up to serving temperature. Flame retardant VW-1.

CROSS SECTION

From 2.5 mm2 and 4 mm2.

MARKING

INDECO S.A THW-90 - Section - 450/750 V - OIL RESISTANCE II, DOES NOT PROPAGATE THE FLAME VW-1, MADE IN PERU - Year - Sequential ength

PACKING

100-meter standard coils.

COLOUR

Yellow/green.

Lead free	Conductor flexibility	Rated Voltage Uo/U (Um)	Oil resistance	Maximum operating temperature	Flame retardant
Yes	**Class 2 IEC 60228**	**450/750 V**	**Oil resistance II**	**90 °C**	**UL 1581 VW1**

All drawings, designs, specifications, plans and particulars of weights, size and dimensions contained in the technical or commercial documentation of Nexans is indicative only and shall not be binding on Nexans or be treated as constituting a representation on the part of Nexans.

PRODUCT STANDARDS

NTP-IEC 60228: Conductors of insulated cables.

NTP 370.252: Thermoplastic and thermoset insulated cables of rated voltages up to and including 450/750 V.

IEC 60228: Conductors of insulated cables.

TEST STANDARDS

UL 2556: Wire and Cable Test Methods. Section 9.3: FT1 (Vertical-Specimen) Flame Test.

UL 2556: Wire and Cable Test Methods. Section 9.4: VW1 (Vertical-Specimen) Flame Test.

UL 2556: Wire and Cable Test Methods. Section 4.1: Insulation, overall covering, and jacket materials tests.

UL 2556: Wire and Cable Test Methods. Section 4.2: Physical properties (ultimate elongation and tensile strength)

UL 2556: Wire and Cable Test Methods. Section 4.2.8.4: Gasoline Resistance.

UL 2556: Wire and Cable Test Methods. Section 7.15: Flexibility at room temperature after aging.

UL 2556: Wire and Cable Test Methods. Section 7.2: Heat shock.

UL 2556: Wire and Cable Test Methods. Section 7.6: Cold bend.

UL 2556: Wire and Cable Test Methods. Section 7.8: Deformation.

CHARACTERISTICS

Construction characteristics	
Conductor material	Soft copper
Insulating material	PVC
Lead free	Yes
Conductor flexibility	Class 2 IEC 60228
Colour	
Conductor shape	Compressed
Insulation colour	Yellow/Green
Number of conductors	1
Dimensional characteristics	
Conductor cross-section	6 mm²
Total number of wires	7
Conductor diameter	3.0 mm
Minimum insulation thickness	0.76 mm
Nominal outer diameter	4.6 mm
Approximate weight	65 kg/km
Electrical characteristics	
Rated Voltage Uo/U (Um)	450/750 V
Dielectric strength	2.0 kV
Time of application Dielectric strength core to screen AC	1 min.
Max. DC resistance of the conductor at 20°C	3.08 Ohm/km
Nominal capacitance	1040.0 pF/m

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Electrical characteristics	
Perm current rating in air 30°C	61 A
Perm current rating in duct 30°C	44 A
Usage characteristics	
Oil resistance	Oil resistance II
Maximum operating temperature	90 °C
Overload maximum core temperature	130 °C
Short-circuit max. conductor temperature	250 °C
Fire safety characteristics	
Flame retardant	UL 1581 VW1

CALCULATION OF CURRENT CONDITION L.V.; 90°C

CALCULATION OF CURRENT CONDITION

Maximum conductor temperature : 90°C.
Ambient air temperature : 30°C.

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