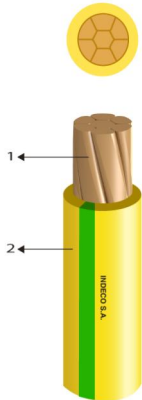


THW-90 450/750 V up to and including 10 mm²; Grounding conductor

THW-90 4 mm²



Nexans Ref.: P00016361-5
Country Ref.: 10043274

CONTACT

Local Sales
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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 length

PACKING

100-meter standard coils.

COLOUR

Yellow/green.



Lead free
Yes



Conductor flexibility
Class 2 IEC 60228



Rated Voltage U_o/U (Um)
450/750 V



Oil resistance
Oil resistance II



Maximum operating temperature
90 °C



Flame retardant
UL 1581 VW1

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	4 mm ²
Total number of wires	7
Conductor diameter	2.4 mm
Minimum insulation thickness	0.76 mm
Nominal outer diameter	4.0 mm
Approximate weight	46 kg/km

Electrical characteristics

Rated Voltage U ₀ /U (U _m)	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	4.61 Ohm/km
Nominal capacitance	870.0 pF/m

Electrical characteristics

Perm current rating in air 30°C	45 A
Perm current rating in duct 30°C	34 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
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CALCULATION OF CURRENT CONDITION L.V.; 90°C

CALCULATION OF CURRENT CONDITION

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