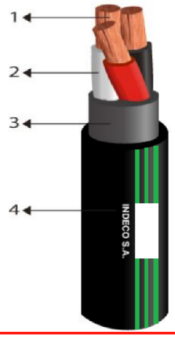
PRACTICABLE TTRF-70 (NMT-PC)

TTRF-70(NMT-PC) 2x12AWG C100





Nexans Ref.: P00038866-5
Country Ref.: 10053341

CONTACT

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APPLICATION

In apparatus or equipment subject to movement, winding or vibrations and in all type of mobile equipment.

STANDARDS

PRODUCT

NTP 370.250; NTP 370.252; IEC 60227-5; IEC 60227-1

TEST

IEC 60227-2; IEC 60332-1-2; UL 2556; IEC 60811-401; IEC 60811-409;
IEC 60811-504; IEC 60811-505; IEC 60811-506; IEC 60811-508; IEC 60811-509

CONSTRUCTION

1. Conductor: Flexible soft copper, class 5.

2. Insulation: Compound polyvinyl chloride PVC.

3. Filler: Flexible compound polyvinyl chloride PVC.

4. Outer sheath: Flexible compound polyvinyl chloride PVC.

MAIN CHARACTERISTICS

Great flexibility, compact termination, resistance to abrasion and moisture. Flame retardant. White tag on the sheath where the user can write on it to identify the use of the cable. Sunlight resistance.

GAUGE

12 AWG and 10 AWG.

MARKING

Legible Printed Marking: PERU INDECO BY NEXANS TTRF-70(NMT-PC) - (Nb cores x gauge) 60227 IEC53 300/500V (YEAR) "- (SEQUENTIAL) 0.5m. || (SEQUENTIAL) 0.5 m. +."

PACKING

In 100-meter standard coils or non returnable wooden reels.

COLOUR

Insulation: See core identification.

Outer sheath: Black with traces (number of traces in function on the number of phases, color of traces according to identification of the gauge).

Lead free	Conductor flexibility	Rated Voltage Uo/U (Um)	Cable flexibility	Oil resistance	U.V resistance	Maximum operating temperature	Flame retardant
Yes	**Flexible class 5**	**300/500 V**	**Excellent**	**Good**	**UL 2556 - Sunlight Resistance**	**70 °C**	**IEC 60332-1-2; FT1**

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 370.250: Conductors of insulated cables.

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

IEC 60227-5: Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V - Flexible cables (cords).

IEC 60227-1: Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V - General requirements.

TESTING STANDARDS

IEC 60227-2: Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V - Test methods.

IEC 60332-1-2: Test for vertical flame propagation for a single insulated wire or cable - Procedure for 1 kW pre-mixed flame.

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

IEC 60811-401: Thermal ageing methods. Ageing in an air oven.

IEC 60811-409: Miscellaneous tests. Mass loss test for thermoplastic insulations and covers.

IEC 60811-504: Tests at low temperature.

IEC 60811-505: Tests at low temperature.

IEC 60811-506: Tests at low temperature.

IEC 60811-508: Pressure test at high temperature for insulation and sheaths.

IEC 60811-509: Test for resistance of insulations and sheaths to cracking.

UL 2556: Wire and Cable Test Methods. **Section 4.2.8.5:** Carbon-Arc and Xenon-Arc Tests- Sunlight resistance.

CHARACTERISTICS

Construction characteristics	
Conductor material	Soft copper
Insulating material	PVC Flexible
Outer sheath	PVC Flexible
Lead free	Yes
Sheath colour	Black
Conductor flexibility	Flexible class 5
Conductor shape	Circular
Insulation	PVC
Insulation colour	White + Black
With Green/Yellow core	No
Dimensional characteristics	
Number of cores	2
Conductor cross-section (AWG/KCMIL)	12 AWG
Conductor diameter	2.3 mm
Minimum insulation thickness	0.8 mm

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Dimensional characteristics	
Minimum outer sheath thickness	1.1 mm
Diameter over Sheath	11 mm
Approximate weight	182 kg/km
Conductor cross-section	- mm²
Electrical characteristics	
Rated Voltage Uo/U (Um)	300/500 V
Dielectric strength	2.0 kV
Time of application Dielectric strength core to screen DC	5 min.
Max. DC resistance of the conductor at 20°C	5.69 Ohm/km
Nominal capacitance	803.0 pF/m
Perm current rating in air 30°C	25 A
Mechanical characteristics	
Cable flexibility	Excellent
Usage characteristics	
Oil resistance	Good
Metric marking	Double marking of sequential footage METRIUM
U.V resistance	UL 2556 - Sunlight Resistance
Maximum operating temperature	70 °C
Midspan	No
Reference	
Overload maximum core temperature	100 °C
Short-circuit max. conductor temperature	160 °C
Fire safety characteristics	
Flame retardant	IEC 60332-1-2; FT1

ENVIRONMENTAL DATA

Global Carbon Footprint	
Amount of CO_2 emitted Cradle to Gate phase (raw material collection and manufacturing), for the production of 1 km of cable.	**971.4 kg eq. CO_2**
Manufacturing site	
Manufactured in Peru	**Lima**

Environmental information coming from Nexans' Product Environmental Profile (PEP Ecopassport®)

CONDUCTOR CROSS-SECTION IDENTIFICATION

Conductor cross - section	Conductor cross-section identification - Color of traces
12 AWG	Green
10 AWG	Silver

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CALCULATION OF CURRENT CONDITION L.V.; 70°C

CALCULATION OF CURRENT CONDITION

Maximum conductor temperature : 70°C
Ambient air temperature : 30°C

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