Nexans H07RN-F TITANEX 5G35

Nexans Ref.: 10055506 Country Ref.: 1074557 EAN 13: 3427680015624

The TITANEX® flexible rubber cable range offers exceptional performances and is designed to release you from all your constraints. Robust yet flexible, TITANEX® is easy to use and withstands the toughest of conditions, such as hard-wearing situations, extreme temperatures and most chemicals

DESCRIPTION

Advantages

- · Very high flexibility
- · Very high crush resistance
- · Good resistance to chemicals, oils and vibrations

TITANEX® H07RN-F cables with EPR rubber insulation and rubber sheathing offer outstanding mechanical properties to meet your most varied requirements. No matter what the installation conditions are, whether indoors or outdoors, in cramped and hazardous environments or in the presence of oils and chemicals, TITANEX combines strengh and flexibility to meet all your requirements.

For more than 50 years the TITANEX® cables have been recognized and are the guarantee of reliable installations in industrial environments (factories, contruction sites, ports, ...) whether they are fixed or mobile such as for cranes, machines tool connections, motor power supplies The mechanical qualities of TITANEX cables also make them suitable for use in event environments, such as festivals, concerts and sport events, where the cable is exposed without protection and can be used several times.

- Core temperature : 90°C
- Operating Voltage : 450/750V mobile, 0.6/1kV fixed, TITANEX H07RN-F cables have been designed tio limit the generation and spread of fire and smoke.
- Reaction to fire : Eca (according to EN 50575:2014+A1:2016)
- Flame retardant (IEC 60332-1, C2)

Installation

TITANEX H07RN-F cables can be laid in cable trays, on shelves, inside ducts or fixed to walls, outside with or without protection. They can also be immersed with additionnal mechanical protection. Additionnaly, they can also be intalled outdoors without protection (UV resistance).

Minimum bending radius

- Dynamic : 6 to 8 x outer diameter of the cable.
- Static : 3 x outer diameter of the cable if OD< or = 12mm ; 4x if OD > 12mm.



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DECLARATION OF PERFORMANCE

Fra

STANDARDS

International 2014/68/EU; EN 50525-2-21; EU Directive 2011/65/ EU (RoHS); HD 516; IEC 60245-4 type 66

National NF C 32-102-4



Laying cable conductors

When pulling the cable, all conductors must be equally stressed. Th tensils force must never exceed 15N/mm2 of total cross-sections. Th maximum tensile force should never exceed 1000N in total, although the above rule may lead to higher values for large cross-sections.

Marking

TITANEX 90°C n (x or G) s NEXANS CE «har» USEH07RN-F - factory n° Made in France Y Eca n°DoP



Conductor flexibility Flexible class 5

Yes







Cable flexibility Flexible



resistance Accidental





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TITANEX® 450/750 V H07RN-F

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CHARACTERISTICS

(Construction characteristics	
	Conductor material	Bare copper
	Conductor flexibility	Flexible class 5
	Insulation	Special cross-linked elastomer
	Outer sheath	Special cross-linked elastomer
	Sheath colour	Black
	Lead free	Yes
	With Green/Yellow core	Yes
	Conductor shape	Circular
	With smaller neutral conductor	No
	Dimensional characteristics	
	Number of cores	5
	Conductor cross-section	35 mm²
	Average insulation thickness	1.4 mm
	Average sheath thickness	- mm
	Approximate weight	2690 kg/km
	Maximum outer diameter	45.1 mm
	Minimum outer diameter	35.6 mm
	Neutral conductor section (when smaller)	- mm²
I	Electrical characteristics	
	Rated Voltage Uo/U (Um)	450 / 750 V
	Permissible current rating in open air	158 A
	Voltage drop, single phase	1.04 V/A.km
	Mechanical characteristics	
	Mechanical resistance to impacts	AG3
	Cable flexibility	Flexible
	Usage characteristics	
	Silicone free	Yes
	Chemical resistance	Accidental
	Water proof	Good
	Flame retardant	C2, NF C 32-070 & IEC 60332-1
	Packaging	Cut to length
	Field of application	-
	Length	- m
	Max. conductor temperature in service	90 °C
	Minimum dynamic operating bending radius	270.6 mm
	Minimum static operating bending radius	- mm
	Oil resistance	Yes
	Operating temperature, range	-25 55 °C
	RoHS compliant	Yes
	Short-circuit max. conductor temperature	250 °C

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ADDITIONAL INFORMATIONS NEXANS TITANEX

Core identification

(In accordance with european harmonization HD308 S2)

1x: black
2x: brown - blue
3x: brown - black - grey (brown - black - blue if the conductor cross-section is 1.5 or 2.5mm²)
3G: brown - blue - green/yellow
4x: brown - black - grey - blue
4G: brown - black - grey - green/yellow
5x: black cores with printed numbers
5G: blue - brown - black - grey - green/yellow
7 cores and above : black cores with printed numbers

Current rating capacities

The data are indicated for continuous duty operation and apply to:

- Maximum conductor temperature = 90 °C
- Nominal frequencies = 50 or 60 Hz
- One cable in free air (on perforated trays)
- Ambient temperature = 30 °C

Data recording from IEC 60364-5-52 or NF C 15-100

Voltage drop

The data are based on Cos $\emptyset = 0.8$

Minimum bending radius

- Static use: 3 x cable outer diameter
- Dynamic use: 6 to 8 x outer cable diameter.

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NEXANS TITANEX, MADE TO SURVIVE



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NEXANS TITANEX FEATURES



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