TITANEX® H07RN-F

H07RN-F TITANEX 3G6

Contact

Building Products Information contact.fr@nexans.com

DECLARATION OF

PERFORMANCE

STANDARDS

EU Directive 2011/65/

EU (RoHS); HD 516;

IEC 60245-4 type 66

National NF C 32-102-4

50525-2-21;

International 2014/68/EU; EN

Fra

Nexans Ref.: 10055537 Country Ref.: 01394744 EAN 13: 3427680014733

The TITANEX® flexible rubber cable range offers exceptional performances and is designed to release you from all your constraints. Robust vet 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.







Lead free



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



Mechanica resistance to impacts AG3



Cable flexibility Flexible



Chemical resistance Accidental



Water proof Good



Flame retardant C2. NF C 32-070 & IEC 60332-1

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



Page 1 / 4



Building Products Information contact.fr@nexans.com

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



Lead free



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



Mechanical resistance to impacts



Cable flexibility Flexible



Chemical resistance Accidental

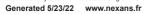


Water proof Good



Flame retardant C2, NF C 32-070 & IEC 60332-1

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.





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
Permissible current rating, pipes	-
With smaller neutral conductor	No
Dimensional characteristics	
Number of cores	3
Conductor cross-section	6 mm²
Average insulation thickness	1.0 mm
Average sheath thickness	- mm
Approximate weight	346 kg/km
Maximum outer diameter	18.0 mm
Minimum outer diameter	14.1 mm
Neutral conductor section (when smaller)	- mm²
Electrical characteristics	
Rated Voltage Uo/U (Um)	450 / 750 V
Permissible current rating in open air	63 A
Voltage drop, single phase	7.0 V/A.km
Mechanical characteristics	
Mechanical resistance to impacts	AG3
Cable flexibility	Flexible
Jsage 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	108.0 mm
Minimum static operating bending radius	54 mm
Oil resistance	Yes
Operating temperature, range	-25 - 55 °C
RoHS compliant	Yes

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.

Generated 5/23/22 www.nexans.fr Page 3 / 4



Short-circuit max. conductor temperature



250 °C

Building Products Information contact.fr@nexans.com

ADDITIONAL INFORMATIONS 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.

