

## H07RN-F

TITANEX, das H07RN-F Kabel von Nexans, ist ein flexibles kabel, das mit Elastomeren isoliert und ummantelt ist und einen Kupferkern aufweist.

## NORMEN

**Produkt** DGRL 2014/68/EU; EN 50525-2-21; HD 516; IEC 60245-4 type 66; NF C32-102-4

**Tests** IEC 60332-1; NF C32-070/C2

**International** EU Directive 2011/65/EU (RoHS)

## 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 strength 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, construction 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 to 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 additional mechanical protection. Additionally, they can also be installed 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.

## EIGENSCHAFTEN

### Konstruktionsmerkmale

Leitermaterial	Kupfer, blank
Leiterform	Rund
Außenmantel	-
Isolierung	-
Mantelfarbe	-
Mit grün-gelber Ader	-
Bleifrei	Ja

### Abmessungsmerkmale

Aderanzahl	-
Leiterquerschnitt	- mm <sup>2</sup>
Wanddicke Isolierung, Mittelwert	- mm
Außendurchmesser Mindestwert	- mm
Maximaler Außendurchmesser	- mm
Nettogewicht ca.	- kg/km

### Mechanische Eigenschaften

Mechanische Festigkeit gegen Schläge	AG3
Biegbarkeit der Leitung	flexibel

### Anwendungsmerkmale

Silikonfrei	ja
Chemische Beständigkeit	fallweise
Wasserdicht	AD6
Betriebstemperatur	-25 ... 55 °C
Max. Betriebstemperatur am Leiter	- °C
Max. Kurzschlussstemperatur am Leiter	- °C
RoHS konform	ja
Ölbeständig	Ja



Bleifrei  
Ja



Mechanische  
Festigkeit gegen  
Schläge  
AG3



Biegbarkeit der  
Leitung  
flexibel



Chemische  
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Wasserdicht  
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Operating temp.  
-25 ... 55 °C



Max. Betriebstemp.  
am Leiter  
- °C



RoHS konform  
ja

## 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 2.5mm<sup>2</sup>)
- 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  $\cos \varnothing = 0.8$

### Minimum bending radius

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

NEXANS TITANEX, MADE TO SURVIVE

# Nexans TITANEX

Tough as nails since 1953



Withstands the most extreme situations



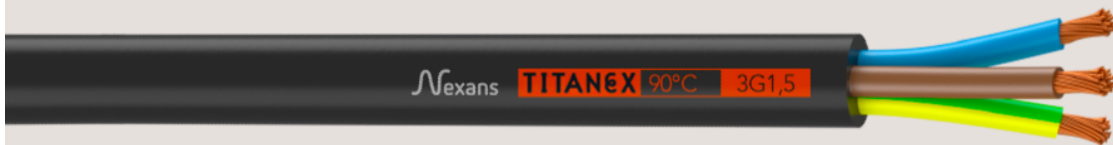
Highly flexible



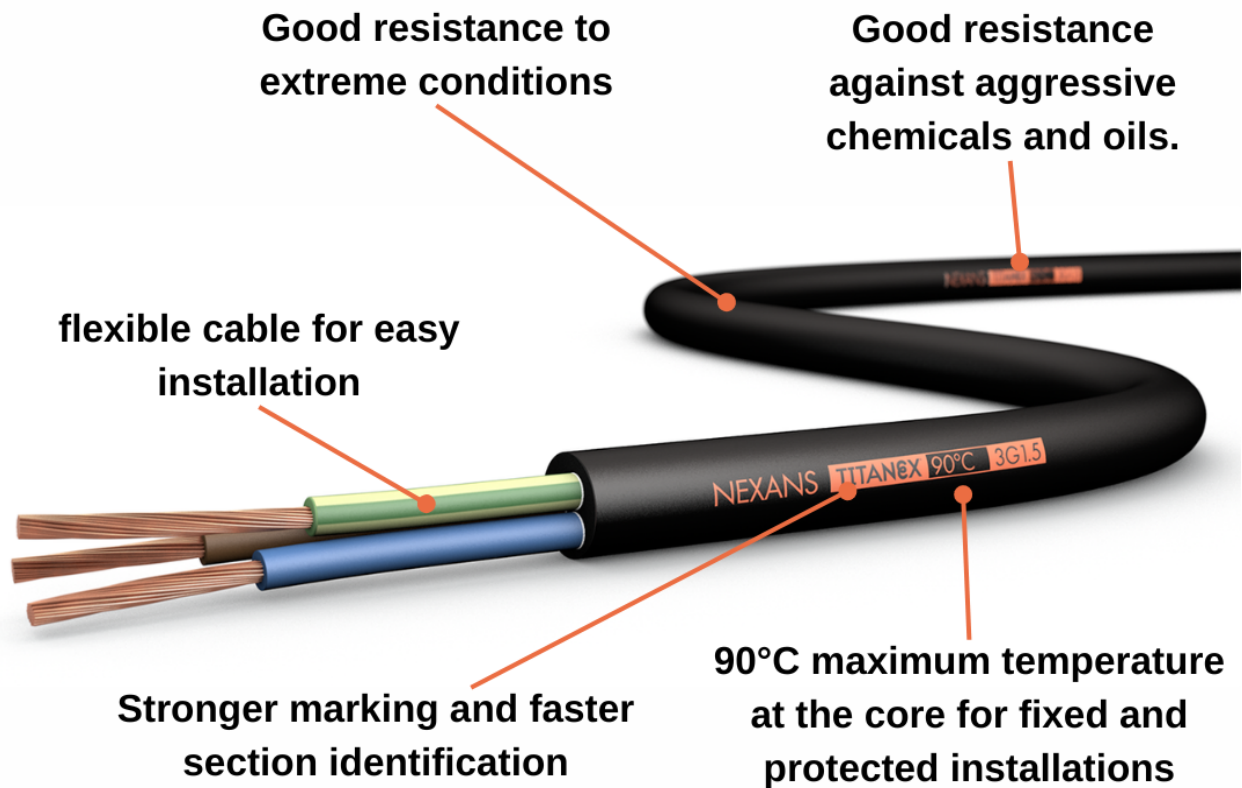
Durable marking



Up to 1kV and 90°C maximum temperature for protected fixed installations.



### NEXANS TITANEX FEATURES



**TITANEX**