

Nexans ref.: 300H07

EAN 13: 3427680016065

Industrial flexible cable, insulation and outer sheath in elastomer.
Oil resistant, flame retardant according to IEC/EN 60332-1-2 standard. H07RN-F

DESCRIPTION

Application

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. For more than 50 years the TITANEX® cable range properties have been recognized as the best choice for all mobile and fixed installations in industrial environments such as construction sites, cranes, machines tools, factories, generators etc.

TITANEX® is also suitable for public environments and temporary events such as festivals or sports competitions, where the cable is often laid directly on the ground with no protection.

The cable may be rated 0,6/1 kV where the installation has built-in protection and for motors in lifting appliances - machine tools - etc.

Installation

This cable can be installed in open air or be buried but with extra mechanical protection.

Conductors laid up

Assembled conductors.

NEW ! MArking : The cross section marking is enlarged to allow easy identification during installation.

USE $\langle \text{har} \rangle N (x \text{ or } G) S$ TITANEX®

- N = Number of conductor
- G = with Green/Yellow
- x = without Green/Yellow
- S = cross-section en mm²



DECLARATION OF PERFORMANCE

Reaction to fire: E_{ca}
according to EN50575:2014
+A1:2016

STANDARDS

International EN 50525-2-21;
HD 22.4; HD 516;
IEC 60245-4 type 66

National NF C 32-102-4



Reaction to fire
E_{ca}



Conductor flexibility
Flexible class 5



Lead free
Yes



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



Mechanical
resistance to
impacts
AG3



Cable flexibility
Flexible



Chemical
resistance
Accidental



Water proof
Good

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	No
With smaller neutral conductor	No

Dimensional characteristics

Number of cores	1
Conductor cross-section	300 mm ²
Minimum outer diameter	33.5 mm
Maximum outer diameter	41.9 mm
Approximate weight	3480 kg/km

Electrical characteristics

Rated Voltage U ₀ /U (U _m)	450 / 750 V
Voltage drop, single phase	0.2 V/A.km
Permissible current rating in open air	693 A

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
Operating temperature, range	-25 .. 55 °C
Max. conductor temperature in service	90 °C
Minimum static operating bending radius	125.7 mm
Short-circuit max. conductor temperature	200 °C
Minimum dynamic operating bending radius	251.4 mm
Oil resistance	Yes
RoHS compliant	Yes

NEW CORES IDENTIFICATION

Core identification in accordance with HD 308 S2 - Identification of cores in cables and flexible cords.

Number of cores	HD 308 S2 since january 2004	
	G (earth core)	X (without earth core)
1		Black (preferential)

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.

2		Blue + Brown
3*	Green - Yellow + Blue + Brown	Brown + Black + Grey
3**		Blue + Brown + Black
4	Green - Yellow + Brown + Black + Grey	Blue + Brown + Black + Grey
5	Green - Yellow + Blue + Brown + Black + Grey	Blue + Brown + Black + Grey + Black
> 5	White printed numbers + 1 Green - Yellow	White printed numbers
* For the cables without Green/Yellow with a cross-section >4mm ²		
** For the cables without Green/Yellow with a cross-section of 1,5mm ² & 2,5mm ²		

COMPLEMENTS

Maximum Operating Temperature

Fixed and protected installation: 90°C

Mobile installation: 60°C

In short-circuit: 200°C

Minimum bending radius

- Dynamic use: 6 to 8x cable outer diameter
- Static use: 3x outer cable diameter if the outer diam is < or =12mm,
4x outer cable diameter if the outer diam is >12mm.

NEW! PACKAGING

- Improved labelling for easy identification of the product
- Key features and specifications highlighted
- Scan QR code to get full technical specifications