



## CONTACT

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New generation of flexible cables elastomer H07RN-F, born to release you from all the constraints.

Thanks to its specific technology, it includes the properties of H07RN8-F; H07BN4-F; H07BB-F.

## STANDARDS

**Product** EN 50525-2-21; HD 22.4; IEC 60245-4 type 66; NF C32-102-4

**Test** IEC 60332-1; NF C32-070

## USE

Nexans TITANEX® PREMIUM is a new H07RN-F cable with a wide variety of properties. It is zero halogen and recommended for use in the case of fire risk. It also includes the properties of H07RN8-F cables for resistance to submersion (AD8), H07BN4-F cables for operating temperature (90°C), and H07BB-F cables for use in extreme cold conditions (down to -50°C).

## Recommendations for use

The insulation and sheathing combinations result in excellent flexibility and good robustness, therefore the product is recommended for use in power cables for port cranes, mobile machines on public building sites, professional portable tools, refrigerating installations, long-term heavy-duty applications in port areas, on ships, offshore platforms...

Further applications include all public-facing facilities as well as buildings containing electronic equipment, central control rooms, airports, railway stations, road tunnels, lighting equipment, etc.



Conductor flexibility  
**Flexible class 5**



Rated Voltage U<sub>0</sub>/U<sub>m</sub>  
**450/750 V**



Mechanical resistance to impacts  
**Good**



Cable flexibility  
**Flexible**



Dynamic bending factor  
**8 (xD)**



Flame retardant  
**NFC 32070 C2, IEC 60332-1-2**



Max. conductor temp. in service  
**90 °C**



Maximum operating temperature  
**85 °C**

## CHARACTERISTICS

- Use up to 1000V for fixed installations or power supply of motors
- Resistance to submersion: AD8
- Presence of corrosive or polluting substances: AF3
- Resistance to impacts: AG2
- Zero halogen (LSOH)
- Flame retardant (NF C 32070 C2; IEC 60332-1)
- Frequent bending: good
- Oil resistance: good
- Low temperature use limit: -50°C (static), -40°C (dynamic)

### Description

1. **Conductor** : Flexible bare copper, class 5.
2. **Insulation** : Special crosslinked elastomer (zero halogen LSOH)
3. **Outer sheath** : Crosslinked elastomer with high mechanical properties (zero halogen LSOH)

## INSTALLATION

### Installation

This cable is designed for open air operation. In the event it should be buried, it should be mechanically protected in a duct or trough.

### Bending radius

- Dynamic use: 6-8 times the outer cable diameter.
- Static use: 3 times the outer cable diameter if less than or equal to 12mm, 4 times if the diameter is more than 12mm.

### Conductor marking/color code

- 1 conductor = black
- 2 conductors = brown + blue
- 3 conductors = green/yellow + blue + brown (G)
- 4 conductors = green/yellow + brown + black + grey
- 5 conductors = green/yellow + blue + brown + black + grey
- 5 conductors = 1 green/yellow + all others black (numbered)

## CHARACTERISTICS

### Construction characteristics

Conductor material	Copper class 5
Insulation	Cross-linked synthetic elastomer type EI 4 waterproof, EI 6, EI 7, EI 8
Outer sheath	Cross-linked synthetic elastomer type EM2 waterproof, EM6, EM7, EM8
Sheath colour	Black
Conductor flexibility	Flexible class 5
Conductor shape	Circular

### Electrical characteristics

Rated Voltage U <sub>0</sub> /U (U <sub>m</sub> )	450/750 V
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### Mechanical characteristics

Mechanical resistance to impacts	Good
Cable flexibility	Flexible

### Usage characteristics

Dynamic bending factor	8 (xD)
Flame retardant	NFC 32070 C2, IEC 60332-1-2
Max. conductor temperature in service	90 °C
Maximum operating temperature	85 °C
Minimum operating temperature	-50 °C
Oil resistance	Good
RoHS compliant	Yes
Short-circuit max. conductor temperature	250 °C
Water proof	AD8

## H07RN-F TITANEX PREMIUM

Nexans Ref.	Name	Nb. of cores	Green/ Yellow core	Cross section [mm²]	Max. outer diam. [mm]	Approx. net weight [kg/km]
☎ 10212996	Nexans TITANEX® PREMIUM 1x1,5	1	No	1.5	7.1	50
☎ 10213000	Nexans TITANEX® PREMIUM 1x6	1	No	6	9.8	109
☎ 10213001	Nexans TITANEX® PREMIUM 1x10	1	No	10	11.9	182
☎ 10230194	Nexans TITANEX® PREMIUM 1x16	1	No	16	13.4	256
☎ 10230195	Nexans TITANEX® PREMIUM 1x25	1	No	25	15.8	369
☎ 10213003	Nexans TITANEX® PREMIUM 1x35	1	No	35	17.9	482
☎ 10211729	Nexans TITANEX® PREMIUM 1x50	1	No	50	20.6	662
☎ 10211730	Nexans TITANEX® PREMIUM 1x70	1	No	70	23.3	895
🏗 10211731	Nexans TITANEX® PREMIUM 1x95	1	No	98	26.0	1160
🏗 10211732	Nexans TITANEX® PREMIUM 1x120	1	No	120	28.6	1430
☎ 10211733	Nexans TITANEX® PREMIUM 1x150	1	No	150	31.4	1740
🏗 10211824	Nexans TITANEX® PREMIUM 1x185	1	No	185	34.4	2160
🏗 10211825	Nexans TITANEX® PREMIUM 1x240	1	No	240	38.3	2730
🏗 10211826	Nexans TITANEX® PREMIUM 1x300	1	No	300	41.9	3480
☎ 10225406	Nexans TITANEX® PREMIUM 1x400	1	No	400	46.8	4510
☎ 10254758	Nexans TITANEX PREMIUM 1X500 500m	1	No	500	52.0	5980
☎ 10214696	Nexans TITANEX® PREMIUM 2x1,5	2	No	1.5	11.0	111
☎ 10213018	Nexans TITANEX® PREMIUM 2x4	2	No	4	15.1	238
☎ 10213019	Nexans TITANEX® PREMIUM 2x6	2	No	6	16.8	279
☎ 10226058	Nexans TITANEX® PREMIUM 2x10	2	No	10	22.6	538
☎ 10213021	Nexans TITANEX® PREMIUM 2x16	2	No	16	25.7	744
☎ 10213022	Nexans TITANEX® PREMIUM 2x25	2	No	25	30.7	1074
☎ 10226683	Nexans TITANEX PREMIUM 3G1,5 100m	3	No	1.5	11.9	134

Nexans Ref.	Name	Nb. of cores	Green/ Yellow core	Cross section [mm <sup>2</sup> ]	Max. outer diam. [mm]	Approx. net weight [kg/km]
☎ 10226682	Nexans TITANEX PREMIUM 3G2,5 100m	3	No	2.5	14.0	195
☎ 10259221	Nexans TITANEX PREMIUM 3G6	3	No	6	18.0	346
🏗 10211827	Nexans TITANEX® PREMIUM 3G1.5	3	Yes	1.5	11.9	134
☎ 10212638	Nexans TITANEX® PREMIUM 3G1.5 50m	3	Yes	1.5	11.9	134
🏗 10211828	Nexans TITANEX® PREMIUM 3G2,5	3	Yes	2.5	14.0	195
☎ 10212639	Nexans TITANEX® PREMIUM 3G2.5 50m	3	Yes	2.5	14.0	195
🏗 10211829	Nexans TITANEX® PREMIUM 3G4	3	Yes	4	16.2	290
☎ 10211830	Nexans TITANEX® PREMIUM 3G6	3	Yes	6	18.0	346
☎ 10213028	Nexans TITANEX® PREMIUM 3G10	3	Yes	10	24.2	663
☎ 10213030	Nexans TITANEX® PREMIUM 3G25	3	Yes	25	33.0	1345
☎ 10265475	Nexans TITANEX® PREMIUM 3G35	3	Yes	35	37.1	1760
☎ 10213032	Nexans TITANEX® PREMIUM 3G50	3	Yes	50	42.9	2390
☎ 10213033	Nexans TITANEX® PREMIUM 3G70	3	Yes	70	48.3	3110
☎ 10213034	Nexans TITANEX® PREMIUM 3G95	3	Yes	95	54.0	4170
☎ 10259222	Nexans TITANEX PREMIUM 5G4	4	No	4	19.9	453
🏗 10211831	Nexans TITANEX® PREMIUM 4G1,5	4	Yes	1.5	13.1	165
☎ 10212640	Nexans TITANEX® PREMIUM 4G1.5 50m	4	Yes	1.5	13.1	165
🏗 10211832	Nexans TITANEX® PREMIUM 4G2,5	4	Yes	2.5	15.5	245
☎ 10212641	Nexans TITANEX® PREMIUM 4G2.5 50m	4	Yes	2.5	15.5	245
☎ 10211833	Nexans TITANEX® PREMIUM 4G4	4	Yes	4	18.0	357
☎ 10211854	Nexans TITANEX® PREMIUM 4G6	4	Yes	6	20.0	443
☎ 10211856	Nexans TITANEX® PREMIUM 4G10	4	Yes	10	26.5	818
☎ 10211857	Nexans TITANEX® PREMIUM 4G16	4	Yes	16	30.1	1150
☎ 10211858	Nexans TITANEX® PREMIUM 4G25	4	Yes	25	36.6	1700

Nexans Ref.	Name	Nb. of cores	Green/ Yellow core	Cross section [mm <sup>2</sup> ]	Max. outer diam. [mm]	Approx. net weight [kg/km]
☎ 10211860	Nexans TITANEX® PREMIUM 4G35	4	Yes	35	41.1	2180
☎ 10220781	Nexans TITANEX® PREMIUM 4G50	4	Yes	50	47.5	3030
☎ 10214697	Nexans TITANEX® PREMIUM 4G70	4	Yes	70	54.0	3990
☎ 10220780	Nexans TITANEX® PREMIUM 4G95	4	Yes	95	61.0	5360
☎ 10222010	Nexans TITANEX® PREMIUM 4G120	4	Yes	120	66.0	6500
☎ 10222011	Nexans TITANEX® PREMIUM 4G150	4	Yes	150	73.0	7990
🏗 10211862	Nexans TITANEX® PREMIUM 5G1,5	5	Yes	1.5	14.4	238
☎ 10212643	Nexans TITANEX® PREMIUM 5G1.5 50m	5	Yes	1.5	14.4	238
🏗 10211863	Nexans TITANEX® PREMIUM 5G2,5	5	Yes	2.5	17.0	297
☎ 10212702	Nexans TITANEX® PREMIUM 5G2.5 50m	5	Yes	2.5	17.0	297
☎ 10211864	Nexans TITANEX® PREMIUM 5G4	5	Yes	4	19.9	453
☎ 10211865	Nexans TITANEX® PREMIUM 5G6	5	Yes	6	22.2	557
☎ 10211866	Nexans TITANEX® PREMIUM 5G10	5	Yes	10	29.1	1001
☎ 10211867	Nexans TITANEX® PREMIUM 5G16	5	Yes	16	33.3	1430
☎ 10211868	Nexans TITANEX® PREMIUM 5G25	5	Yes	25	40.4	2096
☎ 10211869	Nexans TITANEX® PREMIUM 5G35	5	Yes	35	45.1	2696
☎ 10213070	Nexans TITANEX® PREMIUM 5G50	5	Yes	50	53.0	3840
☎ 10215872	Nexans TITANEX® PREMIUM 5G70	5	Yes	70	60.0	4996
☎ 10213072	Nexans TITANEX® PREMIUM 5G95	5	Yes	95	67.0	6465
☎ 10223122	Nexans TITANEX® PREMIUM 7G1,5	7	Yes	1.5	18.7	349
☎ 10227175	Nexans TITANEX® PREMIUM 7G2,5	7	Yes	2.5	22.0	487
☎ 10227176	Nexans TITANEX® PREMIUM 12G1,5	12	Yes	1.5	22.4	510
☎ 10227177	Nexans TITANEX® PREMIUM 12G2,5	12	Yes	2.5	26.2	702
☎ 10222012	Nexans TITANEX® PREMIUM 18G1,5	18	Yes	1.5	26.3	730

Nexans Ref.	Name	Nb. of cores	Green/ Yellow core	Cross section [mm <sup>2</sup> ]	Max. outer diam. [mm]	Approx. net weight [kg/km]
☎ 10223119	Nexans TITANEX® PREMIUM 18G2,5	18	Yes	2.5	30.9	1018
☎ 10227178	Nexans TITANEX PREMIUM 19G1,5 5000m	19	Yes	1.5	26.5	765
☎ 10227179	Nexans TITANEX PREMIUM 24G1,5 500m	24	Yes	1.5	30.7	1000
☎ 10222034	Nexans TITANEX PREMIUM 24G2,5 500m	24	Yes	2.5	36.4	1406
☎ 10215324	Nexans TITANEX PREMIUM 27G1,5 500m	27	Yes	1.5	-	1007
☎ 10213079	Nexans TITANEX® PREMIUM 36G1,5	36	Yes	1.5	35.2	1325
☎ 10213080	Nexans TITANEX® PREMIUM 36G2,5	36	Yes	2.5	39.1	1879

## PRODUCT LIST

Nexans Ref.	Country Ref.	Name	With Green/Yellow core	Number of cores	Conductor cross-section [mm <sup>2</sup> ]
☎ 10212996	01272283	Nexans TITANEX® PREMIUM 1x1,5	No	1	1.5
☎ 10213000	01272286	Nexans TITANEX® PREMIUM 1x6	No	1	6
☎ 10213001	01272287	Nexans TITANEX® PREMIUM 1x10	No	1	10
☎ 10230194	01272288	Nexans TITANEX® PREMIUM 1x16	No	1	16
☎ 10230195	01272289	Nexans TITANEX® PREMIUM 1x25	No	1	25
☎ 10213003	01272290	Nexans TITANEX® PREMIUM 1x35	No	1	35
☎ 10211729	01272291	Nexans TITANEX® PREMIUM 1x50	No	1	50
☎ 10211730	01272292	Nexans TITANEX® PREMIUM 1x70	No	1	70
🏠 10211731	01272293	Nexans TITANEX® PREMIUM 1x95	No	1	98
🏠 10211732	01272294	Nexans TITANEX® PREMIUM 1x120	No	1	120
☎ 10211733	01272295	Nexans TITANEX® PREMIUM 1x150	No	1	150
🏠 10211824	01272296	Nexans TITANEX® PREMIUM 1x185	No	1	185
🏠 10211825	01272297	Nexans TITANEX® PREMIUM 1x240	No	1	240

☎ = Make to order, 🏠 = In stock,

Nexans Ref.	Country Ref.	Name	With Green/Yellow core	Number of cores	Conductor cross-section [mm <sup>2</sup> ]
 10211826	01272298	Nexans TITANEX® PREMIUM 1x300	No	1	300
 10225406	01272299	Nexans TITANEX® PREMIUM 1x400	No	1	400
 10214696	01272301	Nexans TITANEX® PREMIUM 2x1,5	No	2	1.5
 10213018	01272303	Nexans TITANEX® PREMIUM 2x4	No	2	4
 10213019	01272304	Nexans TITANEX® PREMIUM 2x6	No	2	6
 10226058	01272305	Nexans TITANEX® PREMIUM 2x10	No	2	10
 10213021	01272306	Nexans TITANEX® PREMIUM 2x16	No	2	16
 10213022	01272307	Nexans TITANEX® PREMIUM 2x25	No	2	25
 10211827	01272309	Nexans TITANEX® PREMIUM 3G1.5	Yes	3	1.5
 10211828	01272310	Nexans TITANEX® PREMIUM 3G2,5	Yes	3	2.5
 10211829	01272311	Nexans TITANEX® PREMIUM 3G4	Yes	3	4
 10211830	01272312	Nexans TITANEX® PREMIUM 3G6	Yes	3	6
 10213028	01272313	Nexans TITANEX® PREMIUM 3G10	Yes	3	10
 10213030	01272315	Nexans TITANEX® PREMIUM 3G25	Yes	3	25
 10265475	01272316	Nexans TITANEX® PREMIUM 3G35	Yes	3	35
 10213032	01272317	Nexans TITANEX® PREMIUM 3G50	Yes	3	50
 10213033	01272318	Nexans TITANEX® PREMIUM 3G70	Yes	3	70
 10213034	01272319	Nexans TITANEX® PREMIUM 3G95	Yes	3	95
 10212638	01272320	Nexans TITANEX® PREMIUM 3G1.5 50m	Yes	3	1.5
 10212639	01272321	Nexans TITANEX® PREMIUM 3G2.5 50m	Yes	3	2.5
 10211831	01272323	Nexans TITANEX® PREMIUM 4G1,5	Yes	4	1.5
 10211832	01272324	Nexans TITANEX® PREMIUM 4G2,5	Yes	4	2.5
 10211833	01272325	Nexans TITANEX® PREMIUM 4G4	Yes	4	4

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Nexans Ref.	Country Ref.	Name	With Green/Yellow core	Number of cores	Conductor cross-section [mm <sup>2</sup> ]
☎ 10211854	01272326	Nexans TITANEX® PREMIUM 4G6	Yes	4	6
☎ 10211856	01272327	Nexans TITANEX® PREMIUM 4G10	Yes	4	10
☎ 10211857	01272328	Nexans TITANEX® PREMIUM 4G16	Yes	4	16
☎ 10211858	01272329	Nexans TITANEX® PREMIUM 4G25	Yes	4	25
☎ 10211860	01272330	Nexans TITANEX® PREMIUM 4G35	Yes	4	35
☎ 10220781	01272331	Nexans TITANEX® PREMIUM 4G50	Yes	4	50
☎ 10214697	01272332	Nexans TITANEX® PREMIUM 4G70	Yes	4	70
☎ 10220780	01272333	Nexans TITANEX® PREMIUM 4G95	Yes	4	95
☎ 10222010	01272334	Nexans TITANEX® PREMIUM 4G120	Yes	4	120
☎ 10222011	01272335	Nexans TITANEX® PREMIUM 4G150	Yes	4	150
☎ 10212640	01272336	Nexans TITANEX® PREMIUM 4G1.5 50m	Yes	4	1.5
☎ 10212641	01272337	Nexans TITANEX® PREMIUM 4G2.5 50m	Yes	4	2.5
🏠 10211862	01272339	Nexans TITANEX® PREMIUM 5G1,5	Yes	5	1.5
🏠 10211863	01272340	Nexans TITANEX® PREMIUM 5G2,5	Yes	5	2.5
☎ 10222012	01272356	Nexans TITANEX® PREMIUM 18G1,5	Yes	18	1.5
☎ 10223119	01272357	Nexans TITANEX® PREMIUM 18G2,5	Yes	18	2.5
☎ 10213079	01272360	Nexans TITANEX® PREMIUM 36G1,5	Yes	36	1.5
☎ 10213080	01272361	Nexans TITANEX® PREMIUM 36G2,5	Yes	36	2.5
☎ 10259222	-	Nexans TITANEX PREMIUM 5G4	No	4	4
☎ 10259221	-	Nexans TITANEX PREMIUM 3G6	No	3	6
☎ 10254758	-	Nexans TITANEX PREMIUM 1X500 500m	No	1	500
☎ 10222034	01272520	Nexans TITANEX PREMIUM 24G2,5 500m	Yes	24	2.5
☎ 10226683	-	Nexans TITANEX PREMIUM 3G1,5 100m	No	3	1.5

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Nexans Ref.	Country Ref.	Name	With Green/Yellow core	Number of cores	Conductor cross-section [mm <sup>2</sup> ]
☎ 10226682	-	Nexans TITANEX PREMIUM 3G2,5 100m	No	3	2.5
☎ 10227179	01272519	Nexans TITANEX PREMIUM 24G1,5 500m	Yes	24	1.5
☎ 10215324	01272358	Nexans TITANEX PREMIUM 27G1,5 500m	Yes	27	1.5
☎ 10227178	01272518	Nexans TITANEX PREMIUM 19G1,5 5000m	Yes	19	1.5
☎ 10211864	01272341	Nexans TITANEX® PREMIUM 5G4	Yes	5	4
☎ 10211865	01272342	Nexans TITANEX® PREMIUM 5G6	Yes	5	6
☎ 10211866	01272343	Nexans TITANEX® PREMIUM 5G10	Yes	5	10
☎ 10211867	01272344	Nexans TITANEX® PREMIUM 5G16	Yes	5	16
☎ 10211868	01272345	Nexans TITANEX® PREMIUM 5G25	Yes	5	25
☎ 10211869	01272346	Nexans TITANEX® PREMIUM 5G35	Yes	5	35
☎ 10213070	01272347	Nexans TITANEX® PREMIUM 5G50	Yes	5	50
☎ 10215872	01272348	Nexans TITANEX® PREMIUM 5G70	Yes	5	70
☎ 10213072	01272349	Nexans TITANEX® PREMIUM 5G95	Yes	5	95
☎ 10212643	01272350	Nexans TITANEX® PREMIUM 5G1.5 50m	Yes	5	1.5
☎ 10212702	01272351	Nexans TITANEX® PREMIUM 5G2.5 50m	Yes	5	2.5
☎ 10223122	01272352	Nexans TITANEX® PREMIUM 7G1,5	Yes	7	1.5
☎ 10227175	01272353	Nexans TITANEX® PREMIUM 7G2,5	Yes	7	2.5
☎ 10227176	01272354	Nexans TITANEX® PREMIUM 12G1,5	Yes	12	1.5
☎ 10227177	01272355	Nexans TITANEX® PREMIUM 12G2,5	Yes	12	2.5

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## SELLING AND DELIVERY INFORMATION

### Marking

USE < 'HAR > H07RN-F nbr X (or G) S

X = without green/yellow

G = with green/yellow

S = cross-section in mm<sup>2</sup> metric numbered marking