

H07RN-F TITANEX® PREMIUM

Contact

Building Products Information
contact.fr@nexans.com

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.

DESCRIPTION

Use

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).

Classification for use

- 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)

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.

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)



Conductor flexibility
Flexible class 5



Rated Voltage Uo/U
(Um)
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



STANDARDS

International EN 50525-2-21;
HD 22.4; IEC 60245-4 type 66;
IEC 60332-1

National NF C 32-070;
NF C 32-102-4

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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)

Marking

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

X = without green/yellow

G = with green/yellow

S = cross-section in mm² metric numbered marking



Conductor flexibility
Flexible class 5



Rated Voltage Uo/U
(Um)
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

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 ₀ /U (U _m)	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

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Nexans Ref.	Name	Nb. of cores	Cross section [mm ²]	Max. outer diam. [mm]	Approx. net weight [kg/km]
📞 10212996	TITANEX® PREMIUM 1x1,5	1	1.5	7.1	50
📞 10213000	TITANEX® PREMIUM 1x6	1	6	9.8	109
📞 10213001	TITANEX® PREMIUM 1x10	1	10	11.9	182
📞 10230194	TITANEX® PREMIUM 1x16	1	16	13.4	256
📞 10230195	TITANEX® PREMIUM 1x25	1	25	15.8	369
📞 10213003	TITANEX® PREMIUM 1x35	1	35	17.9	482
📞 10211729	TITANEX® PREMIUM 1x50	1	50	20.6	662
📞 10211730	TITANEX® PREMIUM 1x70	1	70	23.3	895
🏗️ 10211731	TITANEX® PREMIUM 1x95	1	98	26.0	1160
🏗️ 10211732	TITANEX® PREMIUM 1x120	1	120	28.6	1430
📞 10211733	TITANEX® PREMIUM 1x150	1	150	31.4	1740
🏗️ 10211824	TITANEX® PREMIUM 1x185	1	185	34.4	2160
🏗️ 10211825	TITANEX® PREMIUM 1x240	1	240	38.3	2730
🏗️ 10211826	TITANEX® PREMIUM 1x300	1	300	41.9	3480
📞 10225406	TITANEX® PREMIUM 1x400	1	400	46.8	4510
📞 10254758	TITANEX PREMIUM 1X500 500m	1	500	52.0	5980
📞 10214696	TITANEX® PREMIUM 2x1,5	2	1.5	11.0	111
📞 10213018	TITANEX® PREMIUM 2x4	2	4	15.1	238
📞 10213019	TITANEX® PREMIUM 2x6	2	6	16.8	279
📞 10226058	TITANEX® PREMIUM 2x10	2	10	22.6	538
📞 10213021	TITANEX® PREMIUM 2x16	2	16	25.7	744
📞 10213022	TITANEX® PREMIUM 2x25	2	25	30.7	1074
🏗️ 10211827	TITANEX® PREMIUM 3G1,5	3	1.5	11.9	134
📞 10212638	TITANEX® PREMIUM 3G1,5 50m	3	1.5	11.9	134
📞 10226683	TITANEX PREMIUM 3G1,5 100m	3	1.5	11.9	134
🏗️ 10211828	TITANEX® PREMIUM 3G2,5	3	2.5	14.0	195
📞 10212639	TITANEX® PREMIUM 3G2,5 50m	3	2.5	14.0	195
📞 10226682	TITANEX PREMIUM 3G2,5 100m	3	2.5	14.0	195
🏗️ 10211829	TITANEX® PREMIUM 3G4	3	4	16.2	290
📞 10211830	TITANEX® PREMIUM 3G6	3	6	18.0	346
📞 10259221	TITANEX PREMIUM 3G6	3	6	18.0	346
📞 10213028	TITANEX® PREMIUM 3G10	3	10	24.2	663
📞 10213030	TITANEX® PREMIUM 3G25	3	25	33.0	1345
📞 10265475	TITANEX® PREMIUM 3G35	3	35	37.1	1760
📞 10213032	TITANEX® PREMIUM 3G50	3	50	42.9	2390
📞 10213033	TITANEX® PREMIUM 3G70	3	70	48.3	3110
📞 10213034	TITANEX® PREMIUM 3G95	3	95	54.0	4170
🏗️ 10211831	TITANEX® PREMIUM 4G1,5	4	1.5	13.1	165
📞 10212640	TITANEX® PREMIUM 4G1,5 50m	4	1.5	13.1	165
🏗️ 10211832	TITANEX® PREMIUM 4G2,5	4	2.5	15.5	245

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Nexans Ref.	Name	Nb. of cores	Cross section [mm ²]	Max. outer diam. [mm]	Approx. net weight [kg/km]
☎ 10212641	TITANEX® PREMIUM 4G2.5 50m	4	2.5	15.5	245
☎ 10211833	TITANEX® PREMIUM 4G4	4	4	18.0	357
☎ 10259222	TITANEX PREMIUM 5G4	4	4	19.9	453
☎ 10211854	TITANEX® PREMIUM 4G6	4	6	20.0	443
☎ 10211856	TITANEX® PREMIUM 4G10	4	10	26.5	818
☎ 10211857	TITANEX® PREMIUM 4G16	4	16	30.1	1150
☎ 10211858	TITANEX® PREMIUM 4G25	4	25	36.6	1700
☎ 10211860	TITANEX® PREMIUM 4G35	4	35	41.1	2180
☎ 10220781	TITANEX® PREMIUM 4G50	4	50	47.5	3030
☎ 10214697	TITANEX® PREMIUM 4G70	4	70	54.0	3990
☎ 10220780	TITANEX® PREMIUM 4G95	4	95	61.0	5360
☎ 10222010	TITANEX® PREMIUM 4G120	4	120	66.0	6500
☎ 10222011	TITANEX® PREMIUM 4G150	4	150	73.0	7990
🏗 10211862	TITANEX® PREMIUM 5G1,5	5	1.5	14.4	238
☎ 10212643	TITANEX® PREMIUM 5G1.5 50m	5	1.5	14.4	238
🏗 10211863	TITANEX® PREMIUM 5G2,5	5	2.5	17.0	297
☎ 10212702	TITANEX® PREMIUM 5G2.5 50m	5	2.5	17.0	297
☎ 10211864	TITANEX® PREMIUM 5G4	5	4	19.9	453
☎ 10211865	TITANEX® PREMIUM 5G6	5	6	22.2	557
☎ 10211866	TITANEX® PREMIUM 5G10	5	10	29.1	1001
☎ 10211867	TITANEX® PREMIUM 5G16	5	16	33.3	1430
☎ 10211868	TITANEX® PREMIUM 5G25	5	25	40.4	2096
☎ 10211869	TITANEX® PREMIUM 5G35	5	35	45.1	2696
☎ 10213070	TITANEX® PREMIUM 5G50	5	50	53.0	3840
☎ 10215872	TITANEX® PREMIUM 5G70	5	70	60.0	4996
☎ 10213072	TITANEX® PREMIUM 5G95	5	95	67.0	6465
☎ 10223122	TITANEX® PREMIUM 7G1,5	7	1.5	18.7	349
☎ 10227175	TITANEX® PREMIUM 7G2,5	7	2.5	22.0	487
☎ 10227176	TITANEX® PREMIUM 12G1,5	12	1.5	22.4	510
☎ 10227177	TITANEX® PREMIUM 12G2,5	12	2.5	26.2	702
☎ 10222012	TITANEX® PREMIUM 18G1,5	18	1.5	26.3	730
☎ 10223119	TITANEX® PREMIUM 18G2,5	18	2.5	30.9	1018
☎ 10227178	TITANEX PREMIUM 19G1,5 5000m	19	1.5	26.5	765
☎ 10227179	TITANEX PREMIUM 24G1,5 500m	24	1.5	30.7	1000
☎ 10222034	TITANEX PREMIUM 24G2,5 500m	24	2.5	36.4	1406
☎ 10215324	TITANEX PREMIUM 27G1,5 500m	27	1.5	-	1007
☎ 10213079	TITANEX® PREMIUM 36G1,5	36	1.5	35.2	1325
☎ 10213080	TITANEX® PREMIUM 36G2,5	36	2.5	39.1	1879

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PRODUCT LIST

Nexans Ref.	Country Ref.	Name	With Green/Yellow core	Number of cores	Conductor cross-section [mm ²]
☎ 10212996	01272283	TITANEX® PREMIUM 1x1,5	No	1	1.5
☎ 10213000	01272286	TITANEX® PREMIUM 1x6	No	1	6
☎ 10213001	01272287	TITANEX® PREMIUM 1x10	No	1	10
☎ 10230194	01272288	TITANEX® PREMIUM 1x16	No	1	16
☎ 10230195	01272289	TITANEX® PREMIUM 1x25	No	1	25
☎ 10213003	01272290	TITANEX® PREMIUM 1x35	No	1	35
☎ 10211729	01272291	TITANEX® PREMIUM 1x50	No	1	50
☎ 10211730	01272292	TITANEX® PREMIUM 1x70	No	1	70
🏠 10211731	01272293	TITANEX® PREMIUM 1x95	No	1	98
🏠 10211732	01272294	TITANEX® PREMIUM 1x120	No	1	120
☎ 10211733	01272295	TITANEX® PREMIUM 1x150	No	1	150
🏠 10211824	01272296	TITANEX® PREMIUM 1x185	No	1	185
🏠 10211825	01272297	TITANEX® PREMIUM 1x240	No	1	240
🏠 10211826	01272298	TITANEX® PREMIUM 1x300	No	1	300
☎ 10225406	01272299	TITANEX® PREMIUM 1x400	No	1	400
☎ 10214696	01272301	TITANEX® PREMIUM 2x1,5	No	2	1.5
☎ 10213018	01272303	TITANEX® PREMIUM 2x4	No	2	4
☎ 10213019	01272304	TITANEX® PREMIUM 2x6	No	2	6
☎ 10226058	01272305	TITANEX® PREMIUM 2x10	No	2	10
☎ 10213021	01272306	TITANEX® PREMIUM 2x16	No	2	16
☎ 10213022	01272307	TITANEX® PREMIUM 2x25	No	2	25
🏠 10211827	01272309	TITANEX® PREMIUM 3G1.5	Yes	3	1.5
🏠 10211828	01272310	TITANEX® PREMIUM 3G2,5	Yes	3	2.5
🏠 10211829	01272311	TITANEX® PREMIUM 3G4	Yes	3	4
☎ 10211830	01272312	TITANEX® PREMIUM 3G6	Yes	3	6
☎ 10213028	01272313	TITANEX® PREMIUM 3G10	Yes	3	10
☎ 10213030	01272315	TITANEX® PREMIUM 3G25	Yes	3	25
☎ 10265475	01272316	TITANEX® PREMIUM 3G35	Yes	3	35
☎ 10213032	01272317	TITANEX® PREMIUM 3G50	Yes	3	50

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☎ 10213033	01272318	TITANEX® PREMIUM 3G70	Yes	3	70
☎ 10213034	01272319	TITANEX® PREMIUM 3G95	Yes	3	95
☎ 10212638	01272320	TITANEX® PREMIUM 3G1.5 50m	Yes	3	1.5
☎ 10212639	01272321	TITANEX® PREMIUM 3G2.5 50m	Yes	3	2.5
🏠 10211831	01272323	TITANEX® PREMIUM 4G1,5	Yes	4	1.5
🏠 10211832	01272324	TITANEX® PREMIUM 4G2,5	Yes	4	2.5
☎ 10211833	01272325	TITANEX® PREMIUM 4G4	Yes	4	4
☎ 10211854	01272326	TITANEX® PREMIUM 4G6	Yes	4	6
☎ 10211856	01272327	TITANEX® PREMIUM 4G10	Yes	4	10
☎ 10211857	01272328	TITANEX® PREMIUM 4G16	Yes	4	16
☎ 10211858	01272329	TITANEX® PREMIUM 4G25	Yes	4	25
☎ 10211860	01272330	TITANEX® PREMIUM 4G35	Yes	4	35
☎ 10220781	01272331	TITANEX® PREMIUM 4G50	Yes	4	50
☎ 10214697	01272332	TITANEX® PREMIUM 4G70	Yes	4	70
☎ 10220780	01272333	TITANEX® PREMIUM 4G95	Yes	4	95
☎ 10222010	01272334	TITANEX® PREMIUM 4G120	Yes	4	120
☎ 10222011	01272335	TITANEX® PREMIUM 4G150	Yes	4	150
☎ 10212640	01272336	TITANEX® PREMIUM 4G1.5 50m	Yes	4	1.5
☎ 10212641	01272337	TITANEX® PREMIUM 4G2.5 50m	Yes	4	2.5
🏠 10211862	01272339	TITANEX® PREMIUM 5G1,5	Yes	5	1.5
🏠 10211863	01272340	TITANEX® PREMIUM 5G2,5	Yes	5	2.5
☎ 10222012	01272356	TITANEX® PREMIUM 18G1,5	Yes	18	1.5
☎ 10223119	01272357	TITANEX® PREMIUM 18G2,5	Yes	18	2.5
☎ 10213079	01272360	TITANEX® PREMIUM 36G1,5	Yes	36	1.5

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☎ 10213080	01272361	TITANEX® PREMIUM 36G2,5	Yes	36	2.5
☎ 10259222	-	TITANEX PREMIUM 5G4	No	4	4
☎ 10259221	-	TITANEX PREMIUM 3G6	No	3	6
☎ 10254758	-	TITANEX PREMIUM 1X500 500m	No	1	500
☎ 10222034	01272520	TITANEX PREMIUM 24G2,5 500m	Yes	24	2.5
☎ 10226683	-	TITANEX PREMIUM 3G1,5 100m	No	3	1.5
☎ 10226682	-	TITANEX PREMIUM 3G2,5 100m	No	3	2.5
☎ 10227179	01272519	TITANEX PREMIUM 24G1,5 500m	Yes	24	1.5
☎ 10215324	01272358	TITANEX PREMIUM 27G1,5 500m	Yes	27	1.5
☎ 10227178	01272518	TITANEX PREMIUM 19G1,5 5000m	Yes	19	1.5
☎ 10211864	01272341	TITANEX® PREMIUM 5G4	Yes	5	4
☎ 10211865	01272342	TITANEX® PREMIUM 5G6	Yes	5	6
☎ 10211866	01272343	TITANEX® PREMIUM 5G10	Yes	5	10
☎ 10211867	01272344	TITANEX® PREMIUM 5G16	Yes	5	16
☎ 10211868	01272345	TITANEX® PREMIUM 5G25	Yes	5	25
☎ 10211869	01272346	TITANEX® PREMIUM 5G35	Yes	5	35
☎ 10213070	01272347	TITANEX® PREMIUM 5G50	Yes	5	50
☎ 10215872	01272348	TITANEX® PREMIUM 5G70	Yes	5	70
☎ 10213072	01272349	TITANEX® PREMIUM 5G95	Yes	5	95
☎ 10212643	01272350	TITANEX® PREMIUM 5G1.5 50m	Yes	5	1.5
☎ 10212702	01272351	TITANEX® PREMIUM 5G2.5 50m	Yes	5	2.5
☎ 10223122	01272352	TITANEX® PREMIUM 7G1,5	Yes	7	1.5
☎ 10227175	01272353	TITANEX® PREMIUM 7G2,5	Yes	7	2.5
☎ 10227176	01272354	TITANEX® PREMIUM 12G1,5	Yes	12	1.5
☎ 10227177	01272355	TITANEX® PREMIUM 12G2,5	Yes	12	2.5

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