

H07RN-F

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

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



STANDARDS

International 2014/68/EU; EN 50525-2-21;
EU Directive 2011/65/
EU (RoHS); HD 516;
IEC 60245-4 type 66

National NF C 32-102-4



Lead free
Yes



Cable flexibility
Flexible



Chemical
resistance
Accidental



Water proof
Good



Max. conductor
temp. in service
90 °C



Oil resistance
Yes



Operating temp.
-25 - 55 °C



RoHS compliant
Yes

CHARACTERISTICS

Construction characteristics

Conductor material	Bare copper
Insulation	Special cross-linked elastomer
Outer sheath	Special cross-linked elastomer
Sheath colour	Black
Lead free	Yes

Mechanical characteristics

Cable flexibility	Flexible
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Usage characteristics

Silicone free	Yes
Chemical resistance	Accidental
Water proof	Good
Length	- m
Max. conductor temperature in service	90 °C
Oil resistance	Yes
Operating temperature, range	-25 - 55 °C
RoHS compliant	Yes
Short-circuit max. conductor temperature	250 °C

SINGLE CORE

Conductor cross-section [mm²]	Permissible current rating in open air [A]	Voltage drop, single phase [V/A.km]	Maximum outer diameter [mm]	Minimum outer diameter [mm]	Approximate weight [kg/km]
6	58	5.9	9.8	7.9	109
10	80	3.4	11.9	9.5	182
35	169	1.04	17.9	14.3	482
50	207	0.75	20.6	16.5	662
70	268	0.56	23.3	18.6	895
95	328	0.44	26.0	20.8	1144
120	382	0.36	28.6	22.8	1430
150	441	0.31	31.4	25.2	1740
185	506	0.28	34.4	27.6	2160
240	599	0.23	38.3	30.6	2730
400	825	0.18	46.8	37.4	4510

TWO CORES

Conductor cross-section [mm²]	Permissible current rating in open air [A]	Voltage drop, single phase [V/A.km]	Maximum outer diameter [mm]	Minimum outer diameter [mm]	Approximate weight [kg/km]
1.5	26	27.0	11.0	8.5	111
4	49	10.1	15.1	11.8	238
6	63	6.7	16.8	13.1	279

Conductor cross-section [mm ²]	Permissible current rating in open air [A]	Voltage drop, single phase [V/A.km]	Maximum outer diameter [mm]	Minimum outer diameter [mm]	Approximate weight [kg/km]
10	86	3.8	22.6	17.7	538
16	115	2.5	25.7	20.2	744
25	149	1.68	30.7	24.3	1074

THREE CORES

Conductor cross-section [mm ²]	Permissible current rating in open air [A]	Voltage drop, single phase [V/A.km]	Maximum outer diameter [mm]	Minimum outer diameter [mm]	Approximate weight [kg/km]	With Green/ Yellow core
1	20	39.4	10.7	8.3	117	Yes
1.5	26	27.0	11.9	9.2	134	Yes
2.5	36	16.2	14.0	10.9	195	Yes
6	63	7.0	18.0	14.1	346	Yes
10	86	4.0	24.2	19.1	663	Yes
16	115	2.5	27.6	21.8	924	Yes
25	149	1.7	33.0	26.1	1345	Yes
35	185	1.21	37.1	29.3	1760	Yes
50	225	0.87	42.9	34.1	2390	Yes

FOUR CORES

Conductor cross-section [mm ²]	Permissible current rating in open air [A]	Voltage drop, single phase [V/A.km]	Maximum outer diameter [mm]	Minimum outer diameter [mm]	Approximate weight [kg/km]
1	18	34.08	12.0	9.6	144
1.5	23	23.3	13.1	10.2	165
2.5	31	14.0	15.5	12.5	245
4	42	8.71	18.0	14.0	357
6	54	5.84	20.0	15.7	443
10	75	3.42	26.5	20.8	818
16	100	2.2	30.1	23.8	1150
25	127	1.44	36.6	28.9	1700
35	158	1.04	41.1	32.5	2180
50	192	0.75	47.5	37.7	3030
70	246	0.56	54.0	42.7	3990
95	298	0.44	61.0	48.4	5360
185	450	0.28	80.0	64.0	9910
240	538	0.23	91.0	72.0	13120

FIVE CORES

Conductor cross-section [mm ²]	Permissible current rating in open air [A]	Voltage drop, single phase [V/A.km]	Maximum outer diameter [mm]	Minimum outer diameter [mm]	Approximate weight [kg/km]
1	18	34.1	14.0	10.9	180
1.5	23	23.6	14.4	11.2	238
2.5	31	14.0	17.0	13.3	297
4	42	8.72	19.9	15.6	453
6	54	5.84	22.2	17.5	557
10	75	3.43	29.1	22.9	1001
16	100	2.2	33.3	26.4	1430
25	127	1.44	40.4	32.0	2096
35	158	1.04	45.1	35.6	2690
50	192	1.04	53.0	41.8	3840
95	298	0.44	67.0	54.0	6640

SEVEN CORES

Conductor cross-section [mm ²]	Permissible current rating in open air [A]	Voltage drop, single phase [V/A.km]	Maximum outer diameter [mm]	Minimum outer diameter [mm]	Approximate weight [kg/km]
2.5	21	13.9	21.8	17.1	487

TWELVE CORES

Conductor cross-section [mm ²]	Permissible current rating in open air [A]	Voltage drop, single phase [V/A.km]	Maximum outer diameter [mm]	Minimum outer diameter [mm]	Approximate weight [kg/km]
1.5	12	23.3	22.14	17.6	510
2.5	16	13.9	26.2	20.6	702

EIGHTEEN CORES

Conductor cross-section [mm ²]	Permissible current rating in open air [A]	Voltage drop, single phase [V/A.km]	Maximum outer diameter [mm]	Minimum outer diameter [mm]	Approximate weight [kg/km]
1.5	10	20.7	26.3	20.7	730
2.5	14	13.9	30.9	24.4	1018

TWENTY FOUR CORES

Conductor cross-section [mm ²]	Permissible current rating in open air [A]	Voltage drop, single phase [V/A.km]	Minimum outer diameter [mm]	Maximum outer diameter [mm]	Approximate weight [kg/km]
1.5	9	-	24.3	30.7	1000
2.5	12	23.3	28.8	36.4	1406