

TITANEX® H07 RN-F 450/750 V

Industrial flexible cable

Nexans <HARD> EAC



Technical data

- **ETIM Class-ID:** EC001578
Class description: flexible cable
- **Operating temperature, range**
flexing: -25°C to +55°C
fixed installation: -25°C to +75°C
- **Max. conductor temperature in service**
Fixed and protected installation: +90°C
Mobile installation: +60°C
Short-circuit: +200°C
- **Nominal voltage**
U₀/U 450/750 V, in case of fixed and protected installation
U₀/U 600/1000 V
- **Mechanical strength** for torsional forces (force acting all over conductor per mm² of the section for all conductors):
with normal use: 1 kg / mm²
at different ambient temperatures
max. 2 kg / mm²
- **Minimum bending radius**
fixed installation:
for outer diameter <12 mm, 3x cable Ø
for outer diameter >12 mm, 4x cable Ø
flexing:
for outer diameter >12 mm, 6-8x cable Ø

Cable structure

- bare copper conductor
- insulation: special cross-linked elastomer
- outer sheath:
cross-linked elastomer with high mechanical properties in black
- Core identification in accordance with HD 308 S2 - Identification of cores in cables and flexible cords:
 - 1 core: black
 - 2 cores: brown + blue
 - 3 cores: yellow-green + blue + brown (G)
brown + black + gray (X S > 4 mm²)
blue + brown + black (X S 1,5 i 2,5 mm²)
 - 4 cores: yellow-green + brown + black + gray (G)
blue + brown + black + gray (X S 1,5 i 2,5 mm²)
 - 5 cores: yellow-green + blue + brown + black + gray (G)
 - >5 cores: first yellow-green + other black (white print numbers)

Properties

- very good mechanical properties of sheath made of crosslinked elastomer; cable may be used in contaminated environment or may be exposed for accidental impact
- oil resistant
- good resistance to damage
- good water resistance (splashes and humidity)
- UV resistant
- materials used in manufacture are silicone-free
- flame test acc. to IEC / EN 60332-1-2
- RoHS compliant

Note

The cross section marking is enlarged to allow easy identification during installation. USE <har>N (x or G) S TITANEX®

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

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.

Continuation ►

TITANEX® H07 RN-F 450/750 V**Industrial flexible cable**

Cat. nr	Cross section [mm ²]	Perm. current rating open air [A]	Voltage drop, single phase [V/A km]	Outer diam. [mm]	Cu Approx. weight [kg/km]	Approx. weight [kg/km]
37001T	1x1,50	24	23,3	5,7-7,1	144	50
37002T	1x2,50	33	14	6,3-7,9	24	66
37003T	1x4	45	8,7	7,2-9	38	94
37004T	1x6	58	5,9	7,9-9,8	58	109
37005T	1x10	80	3,4	9,5-11,9	96	180
37006T	1x16	107	2,2	10,8-13,4	154	256
37007T	1x25	138	1,4	12,7-15,8	240	369
37008T	1x35	169	1,04	14,3-17,9	336	482
37009T	1x50	207	0,75	16,5-20,6	480	660
37010T	1x70	268	0,56	18,6-23,3	672	895
37011T	1x95	328	0,44	20,8-26,0	912	1160
37012T	1x120	382	0,36	22,8-28,6	1152	1430
37013T	1x150	441	0,31	25,2-31,4	1440	1740
37014T	1x185	506	0,28	27,6-34,4	1776	2160
37015T	1x240	599	0,23	30,6-38,3	2304	2730
37016T	1x300	693	0,2	33,5-41,90	2880	3480
37017T	1x400	825	0,18	37,40-46,80	3840	4510
37018T	1x500	946	0,16	41,3-52	4800	5700
37019T	2x1	-	-	7,7-10	19	100
37020T	2x1,5	26	27	8,5-11	29	111
37021T	2x2,5	36	16,2	10,2-13,1	48	161
37022T	2x4	49	10,1	11,8-15,1	77	238
37023T	2x6	63	6,7	13,1-16,8	115	279
37024T	2x10	86	3,8	17,7-22,6	192	538
37025T	2x16	115	2,5	20,2-25,7	307	744
37026T	2x25	149	1,68	24,3-30,7	480	1074
37027T	3G1	20	39,4	8,3-10,7	29	117
37028T	3G1,5	26	27	9,2-11,9	43	134
37029T	3G2,5	36	16,2	10,9-14	72	195
37030T	3G4	49	10,1	12,7-16,2	115	290
37031T	3G6	63	7	14,1-18	173	346
37032T	3G10	86	4	19,1-24,2	288	663
37033T	3G16	115	2,5	21,8-27,6	461	924
37034T	3G25	149	1,7	26,1-33	720	1345
37035T	3G35	185	1,21	29,3-37,1	1008	1760
37036T	3G50	225	0,87	34,1-42,9	1440	2390
37037T	3G70	289	0,64	38,4-48,3	2016	3110
37038T	3G95	352	0,5	43,3-54	2736	4170
37044T	4G1,0	18	34,08	9,6-12	38	144
37045T	4G1,5	23	23,3	10,2-13,1	58	165

Cat. nr	Cross section [mm ²]	Perm. current rating open air [A]	Voltage drop, single phase [V/A km]	Outer diam. [mm]	Cu Approx. weight [kg/km]	Approx. weight [kg/km]
37046T	4G2,5	31	14	12,5-15,5	96	245
37047T	4G4	42	8,71	14-18	154	357
37048T	4G6	54	5,84	15,7-20	230	443
37049T	4G10	75	3,42	20,8-26,5	384	818
37050T	4G16	100	2,2	23,8-30,1	614	1150
37051T	4G25	127	1,44	28,9-36,6	960	1700
37052T	4G35	158	1,04	32,5-41,1	1344	2180
37053T	4G50	192	0,75	37,7-47,5	1920	3030
37054T	4G70	246	0,56	42,7-54	2688	3990
37055T	4G95	298	0,44	48,4-61	3648	5360
37056T	4G120	346	0,36	53-66	4608	6500
37057T	4G150	395	0,31	58-73	5760	7990
37058T	4G185	-	-	64-80	7104	9910
37059T	4G240	538	0,23	72-91	9216	13120
	5G1	18	34,1	14 - 10,9	-	180
37061T	5G1,5	23	23,6	11,2-14,4	72	238
37062T	5G2,5	31	14	13,3-17	120	297
37063T	5G4	42	8,72	15,6-19,9	192	453
37064T	5G6	54	5,84	17,5-22,2	288	557
37065T	5G10	75	3,43	22,9-29,1	480	1001
37066T	5G16	100	2,2	26,4-33,3	768	1430
37067T	5G25	127	1,44	32-40,4	1200	2096
37068T	5G35	158	1,04	36,8-45,8	1680	2750
37091T	5G50	192	1,04	40,0-50,8	2400	3950
00488T	5G70	246	0,56	43,8-54,0	3360	5480
00489T	5G95	298	0,44	-	4560	7010
37092T	7G1,5	17	23,3	14,5-17,5	101	375
37097T	7G2,5	21	13,9	16,5-20,0	168	520
37093T	12G1,5	12	23,3	17,6-22,4	175	460
37096T	12G2,5	16	13,9	20,6-26,2	228	760
00490T	18G1,5	10	20,7	20,7-26,3	259	720
37097T	18G2,5	14	13,9	24,4-30,9	432	1018
37094T	19G1,5	-	-	20,7-26,3	227	810
37098T	19G2,5	-	-	25,5-31,0	456	1075
37095T	24G1,5	-	-	24,3-30,7	346	1000
37099T	24G2,5	-	-	28,8-36,4	576	1390
37075T	27G1,5	-	-	25,5-31,5	385	1100
37076T	27G2,5	-	-	30,0-37,0	640	1521
	36G1,5	7	23,3	27,8 - 35,2	-	1325
	36G2,5	9	13,9	33,2 - 41,8	-	1879

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