

# Treoflex H07 RN-F heavy duty rubber-sheathed cable, submersible

2



## Technical Data

- **Conductor Material**  
Bare copper
- **Conductor Class**  
Class 5
- **Core insulation**  
EPR insulation
- **Core identification**  
2 core: Blue, Brown  
3 core: Blue, Brown, Green/Yellow  
4 core: Brown, Black, Grey, Green/Yellow  
5 core: Blue, Brown, Black, Grey, Green/Yellow  
6 and more Black numbered Green/Yellow
- **Stranding**  
Cores stranded in layers
- **Outer sheath**  
Rubber compound
- **Sheath colour**  
Black
- **Rated Voltage (V) U<sub>0</sub>/U 0.6/1kV**  
This cable is designated 450/750V suitable for 0.6/1kV in fixed installations

- **Testing Voltage**  
2500 V
- **Insulation resistance**  
≥ 1 MΩ x km
- **min. bending radius fixed [xd]**  
3 x d (≤ 12mm)  
4 x d (≥ 12mm)
- **min. bending radius moved [xd]**  
5 x d (≤ 20mm)  
6 x d (≥ 20mm)
- **Working temp fixed min/max [C]**  
-25°C up to +90°C
- **Working temp moved min/max [C]**  
-25°C up to +90°C
- **Temp at conductor max.**  
+90°C
- **Flame retardant**  
Acc. to IEC 60332-1

## Resistant to

- Ozone
- Weather
- Oil
- Abrasion
- Submersible to 500 metres

## Design:

- stranding of fine bare copper wires
- EPR insulation
- conductor specification acc. to VDE 0293 up to 5 cores coloured, more than 5 cores number coded

## Note

- G = with green-yellow earth core;
- X = without green-yellow earth core

## Application:

For connection of machines and hand tools for medium to high mechanical stress. Suitable in dry and moist rooms, outdoors and on buildings lot as well as in explosive areas.

Part Number	No. of cores x cross-sec. mm <sup>2</sup>	Outer Ø ca. mm	Cop.weight kg/km	Weight kg/km
TA35.0015.01	1 x 1.5	6.7	14.4	58
TA35.0025.01	1 x 2.5	7.3	24	71
TA35.0040.01	1 x 4	8.2	38	100
TA35.0060.01	1 x 6	8.9	58	130
TA35.0100.01	1 x 10	10.5	96	230
TA35.0160.01	1 x 16	11.3	154	290
TA35.0250.01	1 x 25	13.4	240	420
TA35.0350.01	1 x 35	15.0	336	530
TA35.0500.01	1 x 50	17.4	480	750
TA35.0700.01	1 x 70	19.2	672	960
TA35.0950.01	1 x 95	21.6	912	1250
TA35.1200.01	1 x 120	23.6	1152	1560
TA35.1500.01	1 x 150	26.3	1440	1900
TA35.1850.01	1 x 185	28.6	1776	2300
TA35.2400.01	1 x 240	31.9	2304	2950
TA35.3000.01	1 x 300	34.6	2880	3600
TA35.4000.01	1 x 400	38.4	3840	4600
TA35.5000.01	1 x 500	42.3	4800	6000

Part Number	No. of cores x cross-sec. mm <sup>2</sup>	Outer Ø ca. mm	Cop.weight kg/km	Weight kg/km
TA35.0010.02	2 x 1	8.3	19	98
TA35.0015.02	2 x 1.5	8.8	29	135
TA35.0250.02	2 x 2.5	10.4	48	193
TA35.0040.02	2 x 4	11.9	77	280
TA35.0060.02	2 x 6	13.8	115	330
TA35.0100.02	2 x 10	18.7	192	586
TA35.0160.02	2 x 16	21.5	307	810
TA35.0250.02	2 x 25	26.3	480	1160
TA35.0010.03	3 G 1	8.9	29	130
TA35.0015.03	3 G 1.5	9.5	43	165
TA35.0025.03	3 G 2.5	11.4	72	235
TA35.0040.03	3 G 4	13.3	115	320
TA35.0060.03	3 G 6	14.8	173	420
TA35.0100.03	3 G 10	20.6	288	810
TA35.0160.03	3 G 16	23.4	461	1050
TA35.0250.03	3 G 25	27.2	720	1250
TA35.0350.03	3 G 35	32.0	1008	1900
TA35.0500.03	3 G 50	36.5	1440	2600
TA35.0700.03	3 G 70	41.0	2016	3400
TA35.0950.03	3 G 95	51	2736	4450

Part Number	No. of cores x cross-sec. mm <sup>2</sup>	Outer Ø ca. mm	Cop.weight kg/km	Weight kg/km
TA35.0010.04	4 G 1	9.7	38	150
TA35.0015.04	4 G 1.5	10.4	58	200
TA35.0025.04	4 G 2.5	12.5	96	290
TA35.0040.04	4 G 4	14.6	154	395
TA35.0060.04	4 G 6	16.4	230	540
TA35.0100.04	4 G 10	22.5	384	950
TA35.0160.04	4 G 16	25.5	614	1260
TA35.0250.04	4 G 25	30.9	960	1860
TA35.0350.04	4 G 35	34.6	1344	2380
TA35.0500.04	4 G 50	39.7	1920	3190
TA35.0700.04	4 G 70	44.4	2688	4260
TA35.0950.04	4 G 95	50.6	3648	5600
TA35.1200.04	4 G 120	57	4608	6830
TA35.1500.04	4 G 150	62	5760	8320
TA35.1850.04	4 G 185	67	7104	9800
TA35.2400.04	4 G 240	76	9216	12100
TA35.0015.05	5 G 1.5	11.5	72	240
TA35.0025.05	5 G 2.5	13.8	120	345
TA35.0040.05	5 G 4	16.3	192	485
TA35.0060.05	5 G 6	18.3	288	650

Part Number	No. of cores x cross-sec. mm <sup>2</sup>	Outer Ø ca. mm	Cop.weight kg/km	Weight kg/km
TA35.0100.05	5 G 10	24.8	480	1200
TA35.0160.05	5 G 16	28.4	768	1550
TA35.0250.05	5 G 25	34.3	1200	2250
TA35.0350.05	5 G 35	38.2	1680	2750
TA35.0500.05	5 G 50	44.3	2400	3950
TA35.0700.05	5 G 70	49.6	3360	4740
TA35.0950.05	5 G 95	50	4560	6780
TA35.0015.07	7 G 1.5	15.0	101	375
TA35.0025.07	7 G 2.5	17.8	168	520
TA35.0015.12	12 G 1.5	17.9	175	460
TA35.0025.12	12 G 2.5	21.2	288	760
TA35.0015.18*	18 G 2.5	27.9	432	850
TA35.0015.19*	19 G 1.5	23.3	274	810
TA35.0025.19*	19 G 2.5	28.7	456	1075
TA35.0015.24*	24 G 1.5	23.9	346	1015
TA35.0025.24*	24 G 2.5	29.8	576	1390
TA35.0015.27*	27 G 1.5	27.3	385	1100
TA35.0025.27*	27 G 2.5	32.2	640	1521

\* These cables are only 80°C rated as per VDE 0298-4 table 11, current ratings in the below table is not valid. Please contact your local Treotham office for correct current rating.

### Current ratings for HO7 RN for current supply in industrial application Operating temperature at conductor 90°C Ambient temperature 40°C (Air)

Number of cores	1-core		2-cores	3-cores	4-cores
	2-cores loaded	3 cores loaded	2-cores loaded	3 cores loaded	3 cores loaded
Number of loaded	Current ratings in Ampere (A)				
Cross section mm <sup>2</sup>	Current ratings in Ampere (A)				
1	20	19	18	16	16
1.5	26	25	24	20	20
2.5	36	35	34	28	28
4	48	46	45	38	38
6	61	59	57	48	48
10	84	81	78	66	66
16	110	110	105	88	88
25	150	145	140	120	120
35	185	180	175	145	145
50	230	220	210	180	180
70	290	280	—	230	230
95	360	350	—	285	285
120	420	410	—	330	330
150	485	470	—	375	375
185	570	550	—	435	435
240	680	660	—	520	520
300	790	770	—	590	590
400	920	900	—	—	—
500	1080	1050	—	—	—
630	1260	1230	—	—	—
Note: For the method of installation: AS/NZS 3008.1.1:1998 - Refer to tables 4, 7, 10, 13 of AS/NZS 3008.1					
Conversion factors for deviating ambient temperature					
Ambient temperature at °C	30		40	45	55
	1.10		1.00	0.94	0.88