

Treoflex SiHF-C-Si

Silicone multicore cable, halogen-free, screened EMC

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Technical Data

- **Conductor Material**
Copper tinned
- **Conductor Class**
Class 5 acc. to DIN VDE 0295 or IEC 60228
- **Core insulation**
Silicone rubber
- **Core identification**
Up to 5 cores colour coded in accordance to VDE 0293, 6 cores and more black with printed consecutive number coding
- **Stranding**
Cores twisted in layers
- **Screening**
Braid of tinned Cu wires, coverage approx 85%
- **Outer sheath**
Silicone
- **Sheath colour**
Red-brown
- **Rated voltage [V]**
300/500
- **Testing Voltage**
2000
- **Insulation resistance**
> 2 GΩ x km
- **Current carrying capacity**
DIN VDE (s. technical guidelines)
- **min. bending radius fixed [xd]**
5 x d
- **min. bending radius moved [xd]**
10 x d
- **Working temp fixed min/max [C]**
-60°C up to +180°C
- **Working temp moved min/max [C]**
-60°C up to +180°C
- **Temp at conductor max.**
+ 180°C
- **Burning behaviour**
VDE 0482-332-2-1 (IEC 60332-1): flame-retardant

Design:

- stranded conductor of tinned copper wire
- core insulation made of silicone rubber
- stranding acc. to VDE 0295 class 5
- up to 5 cores: colour coded according to VDE 0293
- 6 cores and more: black cores with printed consecutive number coding
- earth conductor green/yellow
- braid of tinned copper wires
- silicone outer sheath, red brown

Note

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

Application

Silicone-rubber-insulated cables are used for all applications where the cable insulation is subjected to high temperature fluctuations. These cables are heat-resistant for continuous use at temperatures up to +180°C as well as for short periods of time at +220°C. Silicone-rubber-insulated cables can also be used at low temperatures down to -60°C because of the excellent weathering resistance of the material. These cables are halogen-free. Silicone-rubber-insulated cables have demonstrated proven applications in projector and high-power lighting fixtures as well as all types of heating equipment.
EMC = Electromagnetic compatibility

Part Number	No. of cores x cross-sec. mm ²	Outer Ø ca. mm	Cop.weight kg/km	Weight kg/km
TA41.0005.02	2 x 0.5	8.7	55.5	101
TA41.0005.03	3 G 0.5	8.9	60.8	118
TA41.0005.04	4 G 0.5	9.4	66.5	131
TA41.0005.05	5 G 0.5	10	81.6	153
TA41.0005.07	7 G 0.5	10.5	92.2	173
TA41.0005.10	10 G 0.5	13.1	124	242
TA41.0005.12	12 G 0.5	13.4	134.4	263
TA41.0005.16	16 G 0.5	14.6	170.2	326
TA41.0005.18	18 G 0.5	15.1	181	351
TA41.0005.25	25 G 0.5	19.4	230.1	348
TA41.0007.02	2 x 0.75	9.2	61.4	124
TA41.0007.03	3 G 0.75	9.5	69.1	136
TA41.0007.04	4 G 0.75	10.1	86.7	159
TA41.0007.05	5 G 0.75	10.8	95.2	180
TA41.0007.07	7 G 0.75	11.6	113.3	212
TA41.0007.10	10 G 0.75	14.4	165.2	306
TA41.0007.12	12 G 0.75	14.7	180.3	333
TA41.0007.16	16 G 0.75	16.5	212.2	418
TA41.0007.18	18 G 0.75	17.3	282.1	453
TA41.0007.25	25 G 0.75	22.1	297.4	468
TA41.0010.02	2 x 1	9.5	66.7	132
TA41.0010.03	3 G 1	9.7	86.2	153
TA41.0010.04	4 G 1	10.4	96.8	173
TA41.0010.05	5 G 1	11.3	108.3	202
TA41.0010.07	7 G 1	12	141.2	243
TA41.0010.10	10 G 1	14.9	190	238
TA41.0010.12	12 G 1	15.2	209.8	371
TA41.0010.16	16 G 1	17	251.8	468
TA41.0010.18	18 G 1	17.8	297.4	526
TA41.0010.25	25 G 1	23	329	559

Part Number	No. of cores x cross-sec. mm ²	Outer Ø ca. mm	Cop.weight kg/km	Weight kg/km
TA41.0015.02	2 x 1.5	10.7	87.7	172
TA41.0015.03	3 G 1.5	11.2	103.5	198
TA41.0015.04	4 G 1.5	11.8	131.7	235
TA41.0015.05	5 G 1.5	13.3	148.5	281
TA41.0015.07	7 G 1.5	14.3	193.4	345
TA41.0015.10	10 G 1.5	17.7	268.5	482
TA41.0015.12	12 G 1.5	18	298.4	531
TA41.0015.16	16 G 1.5	20.1	362.3	662
TA41.0015.18	18 G 1.5	20.9	394	720
TA41.0025.25	25 G 1.5	24.1	488.2	791
TA41.0025.02	2 x 2.5	12.1	122.3	230
TA41.0025.03	3 G 2.5	12.9	147.7	275
TA41.0025.04	4 G 2.5	14.2	188.6	340
TA41.0025.05	5 G 2.5	15.3	214.9	394
TA41.0025.07	7 G 2.5	16.9	265.7	488
TA41.0040.04	4 G 4	17.1	294	520
TA41.0040.05	5 G 4	19.4	374	653
TA41.0060.04	4 G 6	18.8	449	781
TA41.0060.05	5 G 6	21.2	563	982
TA41.0100.04	4 G 10	25.7	759	1294
TA41.0160.04	4 G 16	28.4	1180	1988
TA41.0250.04	4 G 25	35	1810	2995