

Treoflex SiHF silicone multicores cable, flexible, halogen-free



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
- **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
- silicone outer sheath, red brown

Note

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

Application:

Suitable where PVC-insulated cables become brittle due to high temperature variations. Silicone-insulated single cores are preferably used in the metallurgical industry, steel works, hot-rolling mills, coking plants, foundries etc. The insulation consists of silicone rubber. It is resistant to vegetable and animal fat, many types of oil and diluted acids. No decomposition occurs when exposed to alcohol, alkaline dilutions etc. The insulation is resistant to oxygen and ozone. Should the cable burn, an insulation silicone dioxide layer will remain on the conductor to render it short circuit proof.

Part Number	No. of cores x cross-sec. mm ²	Outer Ø ca. mm	Cop.weight kg/km	Weight kg/km
TA40.0005.02	2 x 0.5	5.4	9.6	42
TA40.0005.03	3 G 0.5	5.9	14.5	44
TA40.0005.04	4 G 0.5	6.6	19.3	58
TA40.0005.05	5 G 0.5	7.3	24	62
TA40.0005.07	7 G 0.5	8.1	33.7	85
TA40.0005.12	12 G 0.5	10.8	57.6	141
TA40.0005.18	18 G 0.5	12.9	86.5	211
TA40.0005.25	25 G 0.5	15.4	120	271
TA40.0007.02	2 x 0.75	6.4	14.4	53
TA40.0007.03	3 G 0.75	6.7	21.6	63
TA40.0007.04	4 G 0.75	7.5	29	83
TA40.0007.05	5 G 0.75	8.4	36	101
TA40.0007.07	7 G 0.75	9.5	50	124
TA40.0007.12	12 G 0.75	12.2	86.5	185
TA40.0007.18	18 G 0.75	14.5	129.7	260
TA40.0007.25	25 G 0.75	17.6	180	370
TA40.0010.02	2 x 1	6.7	19	59
TA40.0010.03	3 G 1	7.5	29	77
TA40.0010.04	4 G 1	8.1	38	94
TA40.0010.05	5 G 1	8.8	48	115
TA40.0010.07	7 G 1	9.6	67	144
TA40.0010.12	12 G 1	12.6	115.2	231
TA40.0010.18	18 G 1	15.1	172.9	340
TA40.0010.25	25 G 1	18.3	240	431
TA40.0015.02	2 x 1.5	7.8	29	81
TA40.0015.03	3 G 1.5	8.2	43	98
TA40.0015.04	4 G 1.5	8.9	58	122
TA40.0015.05	5 G 1.5	9.8	72	147
TA40.0015.07	7 G 1.5	10.8	101	187

Part Number	No. of cores x cross-sec. mm ²	Outer Ø ca. mm	Cop.weight kg/km	Weight kg/km
TA40.0015.12	12 G 1.5	14.7	173	314
TA40.0015.18	18 G 1.5	17.4	260	506
TA40.0015.25	24 G 1.5	20.7	346	722
TA40.0025.02	2 x 2.5	9.2	48	134
TA40.0025.03	3 G 2.5	9.7	72	152
TA40.0025.04	4 G 2.5	10.6	96	188
TA40.0025.05	5 G 2.5	11.6	120	228
TA40.0025.07	7 G 2.5	12.6	168	320
TA40.0025.12	12 G 2.5	17.1	288	502
TA40.0025.18	18 G 2.5	20.8	432.2	761
TA40.0025.25	25 G 2.5	24.7	600	1007
TA40.0040.02	2 x 4	10.6	77	180
TA40.0040.03	3 G 4	11.4	115	224
TA40.0040.04	4 G 4	13	154	295
TA40.0040.05	5 G 4	14.3	192	359
TA40.0040.07	7 G 4	15.5	269	479
TA40.0060.02	2 x 6	12.6	115	210
TA40.0060.03	3 G 6	13.3	173	270
TA40.0060.04	4 G 6	14.7	230	341
TA40.0060.05	5 G 6	16.4	288	432
TA40.0060.07	7 G 6	18	403	552
TA40.0100.04	4 G 10	18.5	384	644
TA40.0100.05	5 G 10	20.5	480	788
TA40.0160.04	4 G 16	22.2	616	950
TA40.0160.05	5 G 16	24.7	770	1204
TA40.0250.04	4 G 25	27.4	960	1500
TA40.0350.04	4 G 35	29.2	1344	2100