

ETFE, FEP, PFA Cables

TA 866 F

FEP connection cable with extended temperature range

+180°C

VM Style 21618 I/II A/B 150°C 600V FT1 FT2 3866-0415 CE



Marking for TA 866 F 38660415:

SAB BRÖCKSKES · D-VIERSEN · TA 866 F AWG 16/4c cUL^{us} AWM Style 21618 I/II A/B 150°C 600V FT1 FT2 3866-0415 CE

Construction:

Conductor:	tinned copper strands acc. to IEC 60228, VDE 0295, class 5
Insulation:	FEP, 6Y11 acc. to VDE 0207-6
Color code:	colored acc. to HD 308 (VDE 0293-308), from 6 conductors- black conductors with consecutive numbers acc. to EN 50334 + VDE 0293-334 from 3 conductors a green/yellow ground
Stranding:	in layers
Jacket material:	FEP, 6YM1 acc. to VDE 0207-6
Jacket color:	black (RAL 9005)

Technical data:

Nominal voltage:	U ₀ /U 300/500 V	
Voltage UL/cUL:	600 V	
Testing voltage:	conductor/conductor: 2000 V	
Min. bending radius:	7.5 x O.D.	
Radiation resistance:	1 x 10 ⁷ cJ/kg	
Temperature range:	DIN VDE	UL/cUL: up to +150°C
<i>static:</i>	-90/+180°C	
<i>flexible:</i>	-55/+180°C	
Burning characteristics:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2, UL FT1, FT2	
Oil resistance:	very good acc. to UL standard 758, at 80°C after 80 days	
Chemical resistance:	very good against acids, halogens, bases, chlorinated solvents as well as organic and inorganic compounds	
Approvals:	UR AWM, cUR AWM, CE, EAC, RoHS	
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30	

Outstanding features:

- excellent resistance against chemicals and solvents
- excellent temperature resistance and flexibility at low temperatures
- excellent electrical insulating characteristics with low, nearly frequency-independent dielectric characteristics
- UL/cUL recognized

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈lbs/mft
▶ 24 AWG ▪ 0.25 mm²				
38660202	2	0.114	2.9	9
38660302	3	0.122	3.1	12
38660402	4	0.134	3.4	15
38660502	5	0.146	3.7	18
38660702	7	0.165	4.2	24
38661002	10	0.213	5.4	35
38661202	12	0.220	5.6	42
▶ 20 AWG ▪ 0.50 mm²				
38660205	2	0.138	3.5	14
38660305	3	0.146	3.7	19
38660405	4	0.165	4.2	25
38660505	5	0.181	4.6	31
38660705	7	0.205	5.2	41
38661005	10	0.260	6.6	58
38661205	12	0.268	6.8	68
▶ 19 AWG ▪ 0.75 mm²				
38660207	2	0.161	4.1	18
38660307	3	0.173	4.4	25
38660407	4	0.209	5.3	32
38660507	5	0.213	5.4	41
38660707	7	0.244	6.2	53
38661007	10	0.303	7.7	76
38661207	12	0.315	8.0	90

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈lbs/mft
▶ 18 AWG ▪ 1.00 mm²				
38660210	2	0.169	4.3	22
38660310	3	0.189	4.8	29
38660410	4	0.217	5.5	39
38660510	5	0.228	5.8	49
38660710	7	0.244	6.2	63
38661010	10	0.319	8.1	91
38661210	12	0.331	8.4	107
▶ 16 AWG ▪ 1.50 mm²				
38660215	2	0.193	4.9	29
38660315	3	0.209	5.3	41
38660415	4	0.240	6.1	52
38660515	5	0.272	6.9	66
38660715	7	0.283	7.2	87
38661015	10	0.370	9.4	131
38661215	12	0.382	9.7	147
▶ 14 AWG ▪ 2.50 mm²				
38660225	2	0.228	5.8	43
38660325	3	0.244	6.2	60
38660425	4	0.295	7.5	77
38660525	5	0.303	7.7	99
38660725	7	0.331	8.4	130
38661025	10	0.433	11.0	187
38661225	12	0.453	11.5	223

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈lbs/mft
▶ 12 AWG ▪ 4.00 mm²				
38660240	2	0.276	7.0	63
38660340	3	0.299	7.6	91
38660440	4	0.327	8.3	118
38660540	5	0.370	9.4	152
38660740	7	0.406	10.3	201
▶ 10 AWG ▪ 6.00 mm²				
38660260	2	0.343	8.7	98
38660360	3	0.370	9.4	143
38660460	4	0.409	10.4	185
38660560	5	0.457	11.6	240
38660760	7	0.504	12.8	308

Other dimensions and colors are available on request



Possible on request:

- ETFE or PFA insulated strands