

ETFE, FEP, PFA Cables

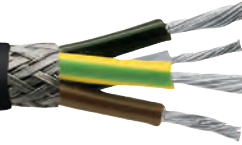
TA 867 CF

FEP connection cable with extended temperature range and overall copper shield

+180°C



Style 21618 I/II A/B 150°C 600V FT1 FT2 3867-0415 CE



Marking for TA 867 CF 38670415:

SAB BRÖCKSKES · D-VIERSEN · TA 867 CF AWG 16/4c AWM Style 21618 I/II A/B 150°C 600V FT1 FT2 38670415 CE

Construction:

| | |
|-------------------------|--|
| Conductor: | tinned copper strands acc. to IEC 60228, VDE 0295, class 5 |
| Insulation: | FEP, 6Y11 acc. to VDE 0207-6 |
| Color code: | up to 5 conductors- HD 308 (VDE 0293-308), see below 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 |
| Wrapping: | foil |
| Shielding: | tinned copper braiding |
| Jacket material: | FEP, 6YM1 acc. to VDE 0207-6 |
| Jacket color: | black (RAL 9005) |

Technical data:

| | | |
|---------------------------------------|---|-----------------------------|
| Peak operating voltage: | U ₀ /U 300/500 V | |
| Voltage UL/cUL: | 600 V | |
| Testing voltage: | conductor/conductor: 2000 V | conductor/shielding: 2000 V |
| Min. bending radius: | 7.5 x O.D. | |
| Radiation resistance: | 1 x 10 ⁷ cJ/kg | |
| Temperature range: | DIN VDE -90/+180°C | UL/cUL: up to +150°C |
| flexible: | -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, 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 | outer-ø ±10% inch | outer-ø ±10% mm | cable weight ≈lbs/mft |
|---------------------------------------|--------------------------------|-------------------|-----------------|-----------------------|
| ▶ 24 AWG - 0.25 mm² | | | | |
| 38670202 | 2 | 0.134 | 3.4 | 15 |
| 38670302 | 3 | 0.142 | 3.6 | 17 |
| 38670402 | 4 | 0.157 | 4.0 | 23 |
| 38670502 | 5 | 0.169 | 4.3 | 26 |
| 38670702 | 7 | 0.185 | 4.7 | 32 |
| 38671002 | 10 | 0.201 | 5.1 | 43 |
| 38671202 | 12 | 0.240 | 6.1 | 51 |
| ▶ 20 AWG - 0.50 mm² | | | | |
| 38670205 | 2 | 0.161 | 4.1 | 22 |
| 38670305 | 3 | 0.169 | 4.3 | 27 |
| 38670405 | 4 | 0.185 | 4.7 | 32 |
| 38670505 | 5 | 0.205 | 5.2 | 40 |
| 38670705 | 7 | 0.224 | 5.7 | 51 |
| 38671005 | 10 | 0.272 | 6.9 | 69 |
| 38671205 | 12 | 0.291 | 7.4 | 82 |
| ▶ 19 AWG - 0.75 mm² | | | | |
| 38670207 | 2 | 0.181 | 4.6 | 26 |
| 38670307 | 3 | 0.193 | 4.9 | 33 |
| 38670407 | 4 | 0.213 | 5.4 | 41 |
| 38670507 | 5 | 0.232 | 5.9 | 51 |
| 38670707 | 7 | 0.252 | 6.4 | 63 |
| 38671007 | 10 | 0.319 | 8.1 | 89 |
| 38671207 | 12 | 0.335 | 8.5 | 104 |

| item no. | no. of conductors incl. ground | outer-ø ±10% inch | outer-ø ±10% mm | cable weight ≈lbs/mft |
|---------------------------------------|--------------------------------|-------------------|-----------------|-----------------------|
| ▶ 18 AWG - 1.00 mm² | | | | |
| 38670210 | 2 | 0.189 | 4.8 | 30 |
| 38670310 | 3 | 0.205 | 5.2 | 39 |
| 38670410 | 4 | 0.220 | 5.6 | 49 |
| 38670510 | 5 | 0.244 | 6.2 | 59 |
| 38670710 | 7 | 0.264 | 6.7 | 74 |
| 38671010 | 10 | 0.339 | 8.6 | 106 |
| 38671210 | 12 | 0.350 | 8.9 | 122 |
| ▶ 16 AWG - 1.50 mm² | | | | |
| 38670215 | 2 | 0.217 | 5.5 | 39 |
| 38670315 | 3 | 0.228 | 5.8 | 50 |
| 38670415 | 4 | 0.248 | 6.3 | 62 |
| 38670515 | 5 | 0.283 | 7.2 | 80 |
| 38670715 | 7 | 0.303 | 7.7 | 101 |
| 38671015 | 10 | 0.398 | 10.1 | 158 |
| 38671215 | 12 | 0.409 | 10.4 | 175 |
| ▶ 14 AWG - 2.50 mm² | | | | |
| 38670225 | 2 | 0.248 | 6.3 | 53 |
| 38670325 | 3 | 0.264 | 6.7 | 70 |
| 38670425 | 4 | 0.291 | 7.4 | 91 |
| 38670525 | 5 | 0.323 | 8.2 | 112 |
| 38670725 | 7 | 0.350 | 8.9 | 145 |
| 38671025 | 10 | 0.461 | 11.7 | 220 |
| 38671225 | 12 | 0.488 | 12.4 | 254 |

| item no. | no. of conductors incl. ground | outer-ø ±10% inch | outer-ø ±10% mm | cable weight ≈lbs/mft |
|---------------------------------------|--------------------------------|-------------------|-----------------|-----------------------|
| ▶ 12 AWG - 4.00 mm² | | | | |
| 38670240 | 2 | 0.299 | 7.6 | 77 |
| 38670340 | 3 | 0.319 | 8.1 | 105 |
| 38670440 | 4 | 0.346 | 8.8 | 135 |
| ▶ 10 AWG - 6.00 mm² | | | | |
| 38670360 | 3 | 0.398 | 10.1 | 168 |

Other dimensions and colors are available on request

HD 308 color code: up to 5 conductors

- 2c: blue, brown
- 3c: green/yellow, blue, brown
- 4c: green/yellow, brown, black, gray
- 5c: green/yellow, blue, brown, black, gray



Possible on request:

- ETFE or PFA insulated strands

