

ETFE, FEP, PFA Cables

TA 867 CF

FEP connection cable with extended temperature range and overall copper screen

+180 °C

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



marking example:

SAB BRÖCKSKES · D-VIERSEN · TA 867 CF AWG 16/4c • AWM Style 21618 I/II A/B 150°C 600V FT1 FT2 3867-0415 CE

Construction:

| | |
|-------------------------|---|
| Conductor: | tinned copper strands acc. to IEC 60228, VDE 0295, class 5 |
| Insulation: | FEP, 6Y11 acc. to VDE 0207-6 |
| Colour code: | coloured acc. to HD 308 (VDE 0293-308), from 6 cores black cores with consecutive numbers acc. to EN 50334 + VDE 0293-334, from 3 cores a green-yellow earth wire |
| Stranding: | in layers |
| Wrapping: | foil |
| Screen: | tinned copper braiding |
| Sheath material: | FEP, 6YM1 acc. to VDE 0207-6 |
| Sheath colour: | black (RAL 9005) |

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

Technical data:

| | | |
|---------------------------------------|---|-----------------------|
| Peak operating voltage: | U _o /U 300/500 V | |
| Voltage UL/cUL: | 600 V | |
| Testing voltage: | core/core | 2000 V |
| | core/screen | 2000 V |
| Min. bending radius: | 7,5 x d | |
| Radiation resistance: | 1 x 10 ⁷ cJ/kg | |
| Temperature range | DIN VDE | UL/cUL: up to +150 °C |
| <i>fixed laying:</i> | -90/+180 °C | |
| <i>flexible application:</i> | -55/+180 °C | |
| Fire performance: | 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 | |
| Chem. resistance: | very good against acids, halogens, bases, chlorinated solvents as well as organic and inorganic compounds | |
| Absence of harmful substances: | acc. to RoHS directive of the European Union, see chapter N „Technical data“ | |

| item no. | no. of cores x cross section n x mm ² | largest single wire ø mm | outer-ø ± 10% mm | copper figure kg/km | cable weight ≈ kg/km |
|----------|--|--------------------------------|------------------------|---------------------------|----------------------------|
| 38670202 | 2 x 0,25 | 0,16 | 3,4 | 15,2 | 21,7 |
| 38670205 | 2 x 0,50 | 0,21 | 4,1 | 23,5 | 33,2 |
| 38670207 | 2 x 0,75 | 0,21 | 4,6 | 28,5 | 38,9 |
| 38670210 | 2 x 1,00 | 0,21 | 4,8 | 35,1 | 44,9 |
| 38670215 | 2 x 1,50 | 0,26 | 5,5 | 46,4 | 57,7 |
| 38670225 | 2 x 2,50 | 0,26 | 6,3 | 67,5 | 78,4 |
| 38670240 | 2 x 4,00 | 0,31 | 7,6 | 100,3 | 114,8 |
| 38670302 | 3 x 0,25 | 0,16 | 3,6 | 17,6 | 25,5 |
| 38670305 | 3 x 0,50 | 0,21 | 4,3 | 28,4 | 40,0 |
| 38670307 | 3 x 0,75 | 0,21 | 4,9 | 37,6 | 49,3 |
| 38670310 | 3 x 1,00 | 0,21 | 5,2 | 44,8 | 58,1 |
| 38670315 | 3 x 1,50 | 0,26 | 5,8 | 60,9 | 74,2 |
| 38670325 | 3 x 2,50 | 0,26 | 6,7 | 93,0 | 104,7 |
| 38670340 | 3 x 4,00 | 0,31 | 8,1 | 141,5 | 156,1 |
| 38670360 | 3 x 6,00 | 0,31 | 10,1 | 226,7 | 250,1 |
| 38670402 | 4 x 0,25 | 0,16 | 4,0 | 23,5 | 34,3 |
| 38670405 | 4 x 0,50 | 0,21 | 4,7 | 33,3 | 48,0 |
| 38670407 | 4 x 0,75 | 0,21 | 5,4 | 44,6 | 61,2 |
| 38670410 | 4 x 1,00 | 0,21 | 5,6 | 53,1 | 72,2 |
| 38670415 | 4 x 1,50 | 0,26 | 6,3 | 77,1 | 93,0 |
| 38670425 | 4 x 2,50 | 0,26 | 7,4 | 119,5 | 136,0 |
| 38670440 | 4 x 4,00 | 0,31 | 8,8 | 182,5 | 200,4 |
| 38670502 | 5 x 0,25 | 0,16 | 4,3 | 26,0 | 39,1 |

| item no. | no. of cores x cross section n x mm ² | largest single wire ø mm | outer-ø ± 10% mm | copper figure kg/km | cable weight ≈ kg/km |
|----------|--|--------------------------------|------------------------|---------------------------|----------------------------|
| 38670505 | 5 x 0,50 | 0,21 | 5,2 | 39,8 | 60,0 |
| 38670507 | 5 x 0,75 | 0,21 | 5,9 | 55,5 | 75,7 |
| 38670510 | 5 x 1,00 | 0,21 | 6,2 | 67,4 | 88,1 |
| 38670515 | 5 x 1,50 | 0,26 | 7,2 | 95,7 | 118,4 |
| 38670525 | 5 x 2,50 | 0,26 | 8,2 | 146,3 | 167,1 |
| 38670702 | 7 x 0,25 | 0,16 | 4,7 | 30,9 | 47,1 |
| 38670705 | 7 x 0,50 | 0,21 | 5,7 | 51,3 | 75,5 |
| 38670707 | 7 x 0,75 | 0,21 | 6,4 | 70,0 | 93,6 |
| 38670710 | 7 x 1,00 | 0,21 | 6,7 | 88,2 | 110,4 |
| 38670715 | 7 x 1,50 | 0,26 | 7,7 | 126,9 | 150,0 |
| 38670725 | 7 x 2,50 | 0,26 | 8,9 | 196,9 | 216,1 |
| 38671002 | 10 x 0,25 | 0,16 | 5,1 | 43,5 | 64,3 |
| 38671005 | 10 x 0,50 | 0,21 | 6,9 | 71,6 | 102,7 |
| 38671007 | 10 x 0,75 | 0,21 | 8,1 | 98,3 | 133,1 |
| 38671010 | 10 x 1,00 | 0,21 | 8,6 | 125,0 | 158,0 |
| 38671015 | 10 x 1,50 | 0,26 | 10,1 | 197,9 | 235,4 |
| 38671025 | 10 x 2,50 | 0,26 | 11,7 | 299,6 | 327,9 |
| 38671202 | 12 x 0,25 | 0,16 | 6,1 | 48,2 | 75,2 |
| 38671205 | 12 x 0,50 | 0,21 | 7,4 | 81,4 | 121,4 |
| 38671207 | 12 x 0,75 | 0,21 | 8,5 | 115,4 | 155,5 |
| 38671210 | 12 x 1,00 | 0,21 | 8,9 | 144,1 | 181,2 |
| 38671215 | 12 x 1,50 | 0,26 | 10,4 | 226,9 | 260,5 |
| 38671225 | 12 x 2,50 | 0,26 | 12,4 | 348,0 | 377,5 |

Other dimensions and colours are possible on request.
ETFE and PFA are possible on request.