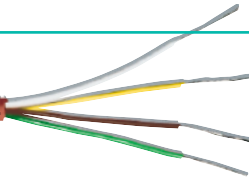


ETFE, FEP, PFA CABLES



TD 809 F FEP insulated connection cable with wider temperature range and colored conductors

D-VIERSEN · TD 809 F 20/7 AWG/4c AWM Style 20229 150°C 300V CE



Marking for TD 809 F 38090420:

SAB BRÖCKSKES · D-VIERSEN · TD 809 F 20/7 AWG/4c AWM Style 20229 150°C 300V CE

TD 809 F is a UL recognized 300 V, 150°C multi-conductor US color coded FEP data cable which is suitable for various applications due to its thin construction as well as good chemical resistance. TD 809 F is a non-outgassing product which makes it possible to be applied in clean rooms as well as wherever a large temperature range exists.

Construction:

| | |
|-------------------------|--|
| Conductor: | tinned copper strands acc. to ASTM B 286 |
| Insulation: | FEP, 6Y11 acc. to DIN VDE 0207 part 6 |
| Color code: | acc. to color code US 4 see page O/27 |
| Stranding: | in layers |
| Wrapping: | PETP foil |
| Rip cord: | Aramid-thread 1580 dtex under the jacket |
| Jacket material: | FEP, 6YM1 acc. to DIN VDE 0207 part 6 |
| Jacket color: | tan |

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

Technical data:

| | | |
|---------------------------------------|---|-------------------------|
| Voltage: | UL: 300 V | |
| Peak operating voltage: | max. 900 V | |
| Testing voltage: | 2000 V | |
| Min. bending radius | | |
| <i>fixed installation:</i> | 5 x O.D. | |
| <i>free movement:</i> | 10 x O.D. | |
| Temperature range | DIN VDE: | UL: 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 + EN 60332-1-2 and UL VW1 | |
| Oil resistance: | 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 | |
| Absence of harmful substances: | acc. to RoHS directive of the European Union see page O/30 | |

| item no. | no. of conductors | nominal outer-ø inch | nominal outer-ø mm | cable weight ≈ lbs/mft | item no. | no. of conductors | nominal outer-ø inch | nominal outer-ø mm | cable weight ≈ lbs/mft | item no. | no. of conductors | nominal outer-ø inch | nominal outer-ø mm | cable weight ≈ lbs/mft |
|-------------------|-------------------|----------------------|--------------------|------------------------|-------------------|-------------------|----------------------|--------------------|------------------------|-------------------|-------------------|----------------------|--------------------|------------------------|
| ▶ 24/7 AWG | | | | | ▶ 22/7 AWG | | | | | ▶ 18/7 AWG | | | | |
| 38092402 | 2 | 0.142 | 3.6 | 14 | 38092212 | 12 | 0.264 | 6.7 | 60 | 38091802 | 2 | 0.189 | 4.8 | 27 |
| 38092403 | 3 | 0.150 | 3.8 | 17 | 38092214 | 14 | 0.276 | 7.0 | 68 | 38091803 | 3 | 0.201 | 5.1 | 36 |
| 38092404 | 4 | 0.161 | 4.1 | 21 | 38092216 | 16 | 0.291 | 7.4 | 77 | 38091804 | 4 | 0.217 | 5.5 | 44 |
| 38092405 | 5 | 0.173 | 4.4 | 25 | 38092218 | 18 | 0.307 | 7.8 | 86 | 38091805 | 5 | 0.236 | 6.0 | 55 |
| 38092406 | 6 | 0.189 | 4.8 | 29 | 38092220 | 20 | 0.323 | 8.2 | 95 | 38091806 | 6 | 0.260 | 6.6 | 65 |
| 38092407 | 7 | 0.189 | 4.8 | 30 | 38092225 | 25 | 0.366 | 9.3 | 113 | 38091807 | 7 | 0.260 | 6.6 | 70 |
| 38092408 | 8 | 0.213 | 5.4 | 37 | 38092230 | 30 | 0.378 | 9.6 | 131 | 38091808 | 8 | 0.299 | 7.6 | 86 |
| 38092409 | 9 | 0.228 | 5.8 | 42 | 38092236 | 36 | 0.409 | 10.4 | 156 | 38091809 | 9 | 0.319 | 8.1 | 98 |
| 38092410 | 10 | 0.232 | 5.9 | 41 | 38092242 | 42 | 0.441 | 11.2 | 182 | 38091810 | 10 | 0.327 | 8.3 | 97 |
| 38092412 | 12 | 0.240 | 6.1 | 47 | ▶ 20/7 AWG | | | | | 38091812 | 12 | 0.339 | 8.6 | 113 |
| 38092414 | 14 | 0.252 | 6.4 | 52 | 38092002 | 2 | 0.169 | 4.3 | 21 | 38091814 | 14 | 0.354 | 9.0 | 129 |
| 38092416 | 16 | 0.264 | 6.7 | 59 | 38092003 | 3 | 0.177 | 4.5 | 27 | 38091816 | 16 | 0.378 | 9.6 | 147 |
| 38092418 | 18 | 0.280 | 7.1 | 66 | 38092004 | 4 | 0.193 | 4.9 | 33 | 38091818 | 18 | 0.398 | 10.1 | 165 |
| 38092420 | 20 | 0.291 | 7.4 | 72 | 38092005 | 5 | 0.213 | 5.4 | 41 | 38091820 | 20 | 0.417 | 10.6 | 182 |
| 38092425 | 25 | 0.331 | 8.4 | 86 | 38092006 | 6 | 0.228 | 5.8 | 48 | 38091825 | 25 | 0.488 | 12.4 | 227 |
| 38092430 | 30 | 0.343 | 8.7 | 99 | 38092007 | 7 | 0.228 | 5.8 | 51 | 38091830 | 30 | 0.504 | 12.8 | 265 |
| 38092436 | 36 | 0.370 | 9.4 | 118 | 38092008 | 8 | 0.264 | 6.7 | 63 | ▶ 16/7 AWG | | | | |
| 38092442 | 42 | 0.398 | 10.1 | 136 | 38092009 | 9 | 0.283 | 7.2 | 72 | 38091602 | 2 | 0.205 | 5.2 | 33 |
| ▶ 22/7 AWG | | | | | 38092010 | 10 | 0.287 | 7.3 | 70 | 38091603 | 3 | 0.213 | 5.4 | 44 |
| 38092202 | 2 | 0.154 | 3.9 | 17 | 38092012 | 12 | 0.295 | 7.5 | 81 | 38091604 | 4 | 0.232 | 5.9 | 55 |
| 38092203 | 3 | 0.161 | 4.1 | 21 | 38092014 | 14 | 0.311 | 7.9 | 92 | 38091605 | 5 | 0.256 | 6.5 | 68 |
| 38092204 | 4 | 0.173 | 4.4 | 25 | 38092016 | 16 | 0.331 | 8.4 | 105 | 38091606 | 6 | 0.280 | 7.1 | 81 |
| 38092205 | 5 | 0.189 | 4.8 | 31 | 38092018 | 18 | 0.346 | 8.8 | 117 | 38091607 | 7 | 0.280 | 7.1 | 87 |
| 38092206 | 6 | 0.205 | 5.2 | 36 | 38092020 | 20 | 0.366 | 9.3 | 130 | 38091608 | 8 | 0.323 | 8.2 | 108 |
| 38092207 | 7 | 0.205 | 5.2 | 38 | 38092025 | 25 | 0.413 | 10.5 | 155 | 38091609 | 9 | 0.346 | 8.8 | 115 |
| 38092208 | 8 | 0.236 | 6.0 | 48 | 38092030 | 30 | 0.429 | 10.9 | 182 | 38091610 | 10 | 0.354 | 9.0 | 122 |
| 38092209 | 9 | 0.252 | 6.4 | 54 | 38092036 | 36 | 0.465 | 11.8 | 215 | 38091612 | 12 | 0.366 | 9.3 | 143 |
| 38092210 | 10 | 0.256 | 6.5 | 52 | 38092042 | 42 | 0.512 | 13.0 | 259 | 38091614 | 14 | 0.386 | 9.8 | 163 |
| | | | | | | | | | | 38091616 | 16 | 0.409 | 10.4 | 186 |
| | | | | | | | | | | 38091618 | 18 | 0.433 | 11.0 | 209 |
| | | | | | | | | | | 38091620 | 20 | 0.453 | 11.5 | 232 |
| | | | | | | | | | | 38091625 | 25 | 0.528 | 13.4 | 288 |
| | | | | | | | | | | 38091630 | 30 | 0.551 | 14.0 | 339 |

Other dimensions and colors are possible on request.

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