

# ETFE, FEP, PFA Cables

## TD 838 CF TP

FEP data cable, twisted pairs with extended temperature range and overall copper screen

+180 °C

ipr cULus AWM Style 21618 I/II A/B 150°C 600V FT1 FT2 3838-0326 CE



marking example:

SAB BRÖCKSKES · D-VIERSEN · TD 838 CF TP AWG 26/3pr cULus AWM Style 21618 I/II A/B 150°C 600V FT1 FT2 3838-0326 CE

### Construction:

<b>Conductor:</b>	tinned copper strands acc. to ASTM B 286
<b>Insulation:</b>	FEP, 6YI1 acc. to VDE 0207-6
<b>Colour code:</b>	with reference to DIN 47100
<b>Stranding:</b>	cores twisted to pairs, pairs together in specially adjusted layering
<b>Wrapping:</b>	foil
<b>Screen:</b>	tinned copper braiding
<b>Sheath material:</b>	FEP, 6YM1 acc. to VDE 0207-6
<b>Sheath colour:</b>	white (RAL 1013)

### 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:

<b>Peak operating voltage:</b>	max. 375 V	
<b>Voltage UL/cUL:</b>	600 V	
<b>Testing voltage:</b>	core/core	2000 V
	core/screen	2000 V
<b>Min. bending radius:</b>	7,5 x d	
<b>Radiation resistance:</b>	1 x 10 <sup>7</sup> cJ/kg	
<b>Temperature range</b>	DIN VDE	UL/cUL: up to +150 °C
<i>fixed laying:</i>	-90/+180 °C	
<i>flexible application:</i>	-55/+180 °C	
<i>limited time of use:</i>	+200 °C	
<b>Fire performance:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2, UL FT1 FT2	
<b>Oil resistance:</b>	very good acc. to UL standard 758, at 80 °C after 80 days	
<b>Chem. resistance:</b>	very good against acids, halogens, bases, chlorinated solvents as well as organic and inorganic compounds	
<b>Absence of harmful substances:</b>	acc. to RoHS directive of the European Union, see chapter N „Technical data“	

item no.	dimension	nominal single wire ø mm	approx. outer-ø mm	copper figure kg/km	cable weight ≈ kg/km
38380228	2 x 2 x AWG 28/7	0,127	3,2	13,9	18,7
38380226	2 x 2 x AWG 26/7	0,160	3,5	16,0	22,0
38380224	2 x 2 x AWG 24/7	0,203	4,0	22,3	30,1
38380222	2 x 2 x AWG 22/7	0,254	4,6	27,7	37,1
38380220	2 x 2 x AWG 20/7	0,320	5,1	37,6	49,5
38380328	3 x 2 x AWG 28/7	0,127	3,6	19,2	24,8
38380326	3 x 2 x AWG 26/7	0,160	4,1	22,3	30,7
38380324	3 x 2 x AWG 24/7	0,203	4,5	26,6	37,3
38380322	3 x 2 x AWG 22/7	0,254	5,2	36,4	50,0
38380320	3 x 2 x AWG 20/7	0,320	5,9	51,9	66,8
38380428	4 x 2 x AWG 28/7	0,127	4,2	21,1	30,3
38380426	4 x 2 x AWG 26/7	0,160	4,7	25,3	36,3
38380424	4 x 2 x AWG 24/7	0,203	5,5	32,6	48,6

item no.	dimension	nominal single wire ø mm	approx. outer-ø mm	copper figure kg/km	cable weight ≈ kg/km
38380422	4 x 2 x AWG 22/7	0,254	5,9	46,7	62,7
38380420	4 x 2 x AWG 20/7	0,320	6,8	66,8	84,8
38380418	4 x 2 x AWG 18/19	0,254	8,1	100,3	124,2
38380528	5 x 2 x AWG 28/7	0,127	4,6	24,8	36,5
38380526	5 x 2 x AWG 26/7	0,160	5,2	30,0	43,9
38380524	5 x 2 x AWG 24/7	0,203	5,8	38,7	50,1
38380522	5 x 2 x AWG 22/7	0,254	6,5	55,3	76,2
38380520	5 x 2 x AWG 20/7	0,320	7,5	77,5	104,5
38380628	6 x 2 x AWG 28/7	0,127	4,7	26,7	40,1
38380626	6 x 2 x AWG 26/7	0,160	5,3	34,3	52,5
38380624	6 x 2 x AWG 24/7	0,203	5,9	44,7	66,6
38380622	6 x 2 x AWG 22/7	0,254	6,9	65,2	90,0
38380620	6 x 2 x AWG 20/7	0,320	7,8	92,6	123,7

Other dimensions and colours are possible on request.

ETFE and PFA are possible on request.