

# ETFE, FEP, PFA Cables

## TD 833 CF

FEP data cable with extended temperature range and overall copper screen

+180 °C

VI Style 21618 I/II A/B 150°C 600V FT1 FT2 3833-0320 CE



marking example:

SAB BRÖCKSKES · D-VIERSEN · TD 833 CF AWG 20/3c •ULus AWM Style 21618 I/II A/B 150°C 600V FT1 FT2 3833-0320 CE

### Construction:

Conductor:	tinned copper strands acc. to ASTM B 286
Insulation:	FEP, 6YI1 acc. to VDE 0207-6
Colour code:	with reference to DIN 47100
Stranding:	in layers
Wrapping:	PETP foil
Screen:	tinned copper braiding
Sheath material:	FEP, 6YM1 acc. to VDE 0207-6
Sheath colour:	white (RAL 1013)

### Technical data:

Peak operating voltage:	max. 375 V	
Voltage cULus:	600 V	
Testing voltage:	core/core	2000 V
	core/screen	2000 V
Min. bending radius:	7,5 x d	
Radiation resistance:	1 x 10 <sup>7</sup> cJ/kg	
Temperature range	DIN VDE	cULus: up to +150 °C
fixed laying:	-90/+180 °C	
flexible application:	-55/+180 °C	
limited time of use:	+200 °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“	

### 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
- » cULus recognized

item no.	dimension	nominal single wire Ø mm	approx. outer-Ø mm	copper figure kg/km	cable weight ≈ kg/km
38330228	2 x AWG 28/7	0,127	2,4	8,8	12,3
38330226	2 x AWG 26/7	0,160	2,7	13,0	16,1
38330224	2 x AWG 24/7	0,203	3,1	14,5	18,8
38330222	2 x AWG 22/7	0,254	3,3	17,1	21,9
38330220	2 x AWG 20/7	0,320	3,7	24,6	29,3
38330328	3 x AWG 28/7	0,127	2,6	9,7	13,9
38330326	3 x AWG 26/7	0,160	2,8	14,4	18,2
38330324	3 x AWG 24/7	0,203	3,1	16,6	21,6
38330322	3 x AWG 22/7	0,254	3,5	20,6	26,6
38330320	3 x AWG 20/7	0,320	4,0	30,1	37,5
38330428	4 x AWG 28/7	0,127	2,8	13,8	17,8
38330426	4 x AWG 26/7	0,160	3,1	15,9	20,6
38330424	4 x AWG 24/7	0,203	3,3	18,4	25,0
38330422	4 x AWG 22/7	0,254	3,8	27,4	33,4
38330420	4 x AWG 20/7	0,320	4,3	35,6	44,5
38330528	5 x AWG 28/7	0,127	3,0	14,8	19,9
38330526	5 x AWG 26/7	0,160	3,5	17,4	24,5
38330524	5 x AWG 24/7	0,203	3,8	24,4	32,0
38330522	5 x AWG 22/7	0,254	4,2	30,9	40,5
38330520	5 x AWG 20/7	0,320	4,8	42,9	54,4

item no.	dimension	nominal single wire Ø mm	approx. outer-Ø mm	copper figure kg/km	cable weight ≈ kg/km
38330622	6 x AWG 22/7	0,254	4,6	34,5	47,2
38330620	6 x AWG 20/7	0,320	5,2	48,4	64,0
38330728	7 x AWG 28/7	0,127	3,2	16,6	23,3
38330726	7 x AWG 26/7	0,160	3,5	20,2	28,1
38330724	7 x AWG 24/7	0,203	4,0	25,2	36,8
38330722	7 x AWG 22/7	0,254	4,4	37,8	49,4
38330720	7 x AWG 20/7	0,320	5,2	53,8	68,4
38330820	8 x AWG 20/7	0,320	5,9	62,5	83,9
38331028	10 x AWG 28/7	0,127	4,0	22,9	33,0
38331026	10 x AWG 26/7	0,160	4,4	28,1	41,9
38331024	10 x AWG 24/7	0,203	5,0	36,9	53,4
38331022	10 x AWG 22/7	0,254	5,6	51,7	69,4
38331020	10 x AWG 20/7	0,320	6,4	75,4	95,1
38331228	12 x AWG 28/7	0,127	4,0	27,4	35,9
38331226	12 x AWG 26/7	0,160	4,5	30,8	44,2
38331224	12 x AWG 24/7	0,203	5,2	41,2	59,9
38331222	12 x AWG 22/7	0,254	5,8	60,3	80,2
38331220	12 x AWG 20/7	0,320	6,6	86,2	108,3
38331426	14 x AWG 26/7	0,160	4,7	35,5	50,0

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