

ETFE, FEP, PFA Cables

TD 833 CF

FEP data cable with extended temperature range and overall copper shield

+180°C

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



Marking for TD 833 CF 38330320:

SAB BRÖCKSKES · D-VIERSEN · TD 833 CF AWG 20/3c eUL 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, 6Y11 acc. to VDE 0207-6
Color code:	with reference to DIN 47100, see page O/26
Stranding:	in layers
Wrapping:	PETP foil
Shielding:	tinned copper braiding
Jacket material:	FEP, 6YM1 acc. to VDE 0207-6
Jacket color:	white (RAL 1013)

Technical data:

Peak operating voltage:	max. 375 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	UL/cUL: up to +150°C
<i>static:</i>	-90/+180°C	
<i>flexible:</i>	-55/+180°C	
<i>limited time of use:</i>	+200°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, cUR, CE, EAC, 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	nominal outer-ø inch	mm	cable weight ≈lbs/mft
▶ 28 AWG (7 strand) ▪ 0.08 mm²				
38330228	2	0.094	2.4	8
38330328	3	0.102	2.6	9
38330428	4	0.110	2.8	12
38330528	5	0.118	3.0	13
38330728	7	0.126	3.2	16
38331028	10	0.157	4.0	22
38331228	12	0.157	4.0	24
▶ 26 AWG (7 strand) ▪ 0.14 mm²				
38330226	2	0.106	2.7	11
38330326	3	0.110	2.8	12
38330426	4	0.122	3.1	14
38330526	5	0.138	3.5	16
38330726	7	0.138	3.5	19
38331026	10	0.173	4.4	28
38331226	12	0.177	4.5	30
38331426	14	0.185	4.7	34

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈lbs/mft
▶ 24 AWG (7 strand) ▪ 0.25 mm²				
38330224	2	0.122	3.1	13
38330324	3	0.122	3.1	15
38330424	4	0.130	3.3	17
38330524	5	0.150	3.8	22
38330724	7	0.157	4.0	25
38331024	10	0.197	5.0	36
38331224	12	0.205	5.2	40
▶ 22 AWG (7 strand) ▪ 0.34 mm²				
38330222	2	0.130	3.3	15
38330322	3	0.138	3.5	18
38330422	4	0.150	3.8	22
38330522	5	0.165	4.2	27
38330622	6	0.181	4.6	32
38330722	7	0.173	4.4	33
38331022	10	0.220	5.6	47
38331222	12	0.228	5.8	54

item no.	no. of conductors incl. ground	nominal outer-ø inch	mm	cable weight ≈lbs/mft
▶ 20 AWG (7 strand) ▪ 0.50 mm²				
38330220	2	0.146	3.7	20
38330320	3	0.157	4.0	25
38330420	4	0.169	4.3	30
38330520	5	0.189	4.8	37
38330620	6	0.205	5.2	43
38330720	7	0.205	5.2	46
38330820	8	0.232	5.9	56
38331020	10	0.252	6.4	64
38331220	12	0.260	6.6	73

Other dimensions and colors are available on request



Possible on request:

- ETFE or PFA insulated strands