

ETFE, FEP, PFA CABLES

TD 846 DS TP Paired, double shielded FEP insulated foil shielded and tinned copper braided data cable



VIERSEN · TD 846 DS TP 20/7 AWG/3pr AWM Style 20229 150°C

Marking for TD 846 DS TP 38460320:
SAB BRÖCKSKES · D-VIERSEN · TD 846 DS TP 20/7 AWG/3pr AWM Style 20229 150°C 300V

TD 846 DS TP is a UL recognized foil and tinned copper braided 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 845 DS TP is a non-outgassing product which makes it possible to be applied in clean rooms as well as wherever a large temperature range exists. An overall tinned copper braid is recommended whenever electrical interference distorts signal transmission, or when EMI emissions need to be suppressed.

Construction:

Conductor:	tinned copper strands acc. to ASTM B 286
Insulation:	FEP, 6Y11 acc. to DIN VDE 0207-6
Color code:	acc. to color code US 5 see page O/27
Stranding:	pairwise, pairs totally twisted with special adjusted layering
Wrapping:	PETP foil
Drain wire:	tinned copper strands acc. to ASTM B 286
Wrapping:	alu/polyester/alu foil, coated on both sides
Screen:	tinned copper braiding
Rip cord:	Aramid-thread 1580 dtex under the jacket
Jacket material:	FEP, 6YM1 acc. to DIN VDE 0207-6
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:	conductor/conductor 2000 V conductor/shield 1000 V conductor/shield 600 V (ST)
Min. bending radius <i>fixed installation:</i>	5 x O.D.
<i>free movement:</i>	10 x O.D.
Temperature range <i>static:</i>	DIN VDE: -90/+180°C UL: up to +150°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 VV1
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 pairs	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft	item no.	no. of pairs	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft	item no.	no. of pairs	nominal outer-ø inch	nominal outer-ø mm	cable weight ≈ lbs/mft
▶ 24/7 AWG					▶ 20/7 AWG					▶ 16/19 AWG				
38462402	2	0.240	6.1	34	38462002	2	0.283	7.2	50	38461602	2	0.339	8.6	80
38462403	3	0.268	6.8	42	38462003	3	0.323	8.2	65	38461603	3	0.386	9.8	105
38462404	4	0.307	7.8	50	38462004	4	0.370	9.4	79	38461604	4	0.449	11.4	131
38462405	5	0.327	8.3	60	38462005	5	0.402	10.2	97	38461605	5	0.500	12.7	167
38462406	6	0.339	8.6	67	38462006	6	0.413	10.5	111	38461606	6	0.512	13.0	195
38462407	7	0.354	9.0	78	38462007	7	0.429	10.9	127	38461607	7	0.551	14.0	229
38462410	10	0.406	10.3	92	38462010	10	0.508	12.9	165	38461610	10	0.661	16.8	288
38462414	14	0.480	12.2	128	38462014	14	0.606	15.4	223	38461614	14	0.760	19.3	391
38462418	18	0.516	13.1	157	38462018	18	0.654	16.6	277	38461618	18	0.819	20.8	489
38462425	25	0.594	15.1	204	38462025	25	0.752	19.1	366	38461625	25	0.969	24.6	671
▶ 22/7 AWG					▶ 18/7 AWG									
38462202	2	0.256	6.5	44	38461802	2	0.319	8.1	67					
38462203	3	0.291	7.4	51	38461803	3	0.362	9.2	85					
38462204	4	0.331	8.4	62	38461804	4	0.417	10.6	107					
38462205	5	0.358	9.1	75	38461805	5	0.453	11.5	130					
38462206	6	0.370	9.4	85	38461806	6	0.472	12.0	151					
38462207	7	0.386	9.8	97	38461807	7	0.496	12.6	179					
38462210	10	0.449	11.4	118	38461810	10	0.591	15.0	231					
38462214	14	0.543	13.8	171	38461814	14	0.689	17.5	304					
38462218	18	0.587	14.9	209	38461818	18	0.752	19.1	390					
38462225	25	0.657	16.7	264	38461825	25	0.890	22.6	538					

Other dimensions and colors are possible on request.