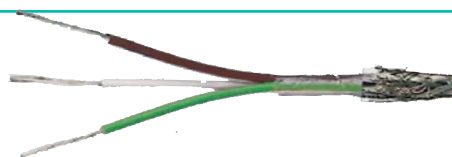


# ETFE, FEP, PFA CABLES

## TD 845 DS Double shielded FEP insulated connection cable with wider temperature range, colored conductors and copper screen



TD 845 DS 20/7 AWG/3c AWM Style 20229 150°C 300V

Marking for TD 845 DS 38450320:

SAB BRÖCKSKES · D-VIERSEN · TD 845 DS 20/7 AWG/3c AWM Style 20229 150°C 300V

TD 845 DS is a UL recognized foil shielded 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 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:

<b>Conductor:</b>	tinned copper strands acc. to ASTM B 286
<b>Insulation:</b>	FEP, 6YI1 acc. to DIN VDE 0207 part 6
<b>Color code:</b>	acc. to color code US 4 see page N/26
<b>Stranding:</b>	in layers
<b>Wrapping:</b>	PETP foil
<b>Drain wire:</b>	tinned copper strands acc. to ASTM B 286
<b>Wrapping:</b>	alu/P/alu foil, coated on both sides
<b>Screen:</b>	tinned copper braiding
<b>Slitting cord:</b>	Aramid-therad 1580 dtex under the jacket
<b>Jacket material:</b>	FEP, 6YM1 acc. to DIN VDE 0207 part 6
<b>Jacket color:</b>	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:

<b>Voltage:</b>	<b>UL:</b> 300 V
<b>Peak operating voltage:</b>	max. 900 V
<b>Testing voltage:</b>	conductor/conductor 2000 V conductor/shield 1000 V conductor/shield 600 V (ST)
<b>Min. bending radius</b> <i>fixed installation:</i>	5 x O.D.
<i>free movement:</i>	10 x O.D.
<b>Temperature range</b> <i>static:</i>	<b>DIN VDE:</b> -90/+180 °C <b>UL:</b> up to +150 °C
<i>flexing:</i>	-55/+180 °C
<b>Burning characteristics:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2 and UL VW1
<b>Oil resistance:</b>	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 page N/28

item no.	no. of conductors	nominal outer- inch	outer- mm	cable weight ≈ lbs/mft	item no.	no. of conductors	nominal outer- inch	outer- mm	cable weight ≈ lbs/mft	item no.	no. of conductors	nominal outer- inch	outer- mm	cable weight ≈ lbs/mft
<b>▶ 24/7 AWG</b>					<b>▶ 22/7 AWG</b>					<b>▶ 20/7 AWG</b>				
38452402	2	0.173	4.4	23	38452202	2	0.185	4.7	27	38452002	2	0.201	5.1	33
38452403	3	0.185	4.7	27	38452203	3	0.197	5.0	32	38452003	3	0.217	5.5	41
38452404	4	0.197	5.0	32	38452204	4	0.213	5.4	38	38452004	4	0.232	5.9	48
38452405	5	0.209	5.3	36	38452205	5	0.228	5.8	44	38452005	5	0.252	6.4	57
38452406	6	0.224	5.7	41	38452206	6	0.244	6.2	51	38452006	6	0.272	6.9	65
38452408	8	0.252	6.4	52	38452208	8	0.280	7.1	65	38452008	8	0.303	7.7	83
38452410	10	0.264	6.7	54	38452210	10	0.287	7.3	68	38452010	10	0.319	8.1	89
38452412	12	0.276	7.0	61	38452212	12	0.299	7.6	76	38452012	12	0.335	8.5	100
38452414	14	0.287	7.3	68	38452214	14	0.315	8.0	86	38452014	14	0.354	9.0	114
38452415	15	0.287	7.3	71	38452216	16	0.331	8.4	96	38452016	16	0.370	9.4	126
38452416	16	0.303	7.7	75	38452218	18	0.346	8.8	106	38452018	18	0.390	9.9	141
38452418	18	0.315	8.0	82	38452220	20	0.362	9.2	115	38452020	20	0.406	10.3	153
38452420	20	0.327	8.3	89	38452225	25	0.390	9.9	132	38452025	25	0.445	11.3	185
38452425	25	0.354	9.0	103	38452230	30	0.425	10.8	162	38452030	30	0.492	12.5	225
38452430	30	0.378	9.6	119	38452236	36	0.449	11.4	184	38452036	36	0.508	12.9	255
38452436	36	0.394	10.0	135	38452242	42	0.504	12.8	219	38452042	42	0.567	14.4	297
38452442	42	0.445	11.3	162										

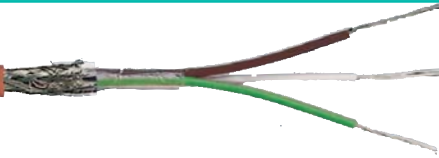
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# ETFE, FEP, PFA CABLES



## TD 845 DS Double shielded FEP insulated connection cable with wider temperature range, colored conductors and copper screen

5 DS 20/7 AWG/3c AWM Style 20229 150°C 300V CE



Marking for TD 845 DS 38450320:

SAB BRÖCKSKES · D-VIERSEN · TD 845 DS 20/7 AWG/3c AWM Style 20229 150°C 300V CE

TD 845 DS is a UL recognized foil shielded 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 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:

<b>Conductor:</b>	tinned copper strands acc. to ASTM B 286
<b>Insulation:</b>	FEP, 6Y11 acc. to DIN VDE 0207 part 6
<b>Color code:</b>	acc. to color code US 4 see page N/26
<b>Stranding:</b>	in layers
<b>Wrapping:</b>	PETP foil
<b>Drain wire:</b>	tinned copper strands acc. to ASTM B 286
<b>Wrapping:</b>	alu/P/alu foil, coated on both sides
<b>Screen:</b>	tinned copper braiding
<b>Slitting cord:</b>	Aramid-therad 1580 dtex under the jacket
<b>Jacket material:</b>	FEP, 6YM1 acc. to DIN VDE 0207 part 6
<b>Jacket color:</b>	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:

<b>Voltage:</b>	<b>UL:</b> 300 V
<b>Peak operating voltage:</b>	max. 900 V
<b>Testing voltage:</b>	conductor/conductor 2000 V conductor/shield 1000 V conductor/shield 600 V (ST)
<b>Min. bending radius</b>	
<i>fixed installation:</i>	5 x O.D.
<i>free movement:</i>	10 x O.D.
<b>Temperature range</b>	<b>DIN VDE:</b> UL: up to +150 °C
<i>static:</i>	-90/+180 °C
<i>flexing:</i>	-55/+180 °C
<b>Burning characteristics:</b>	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + EN 60332-1-2 and UL VW1
<b>Oil resistance:</b>	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 page N/28

item no.	no. of conductors	nominal outer- $\phi$ inch	nominal outer- $\phi$ mm	cable weight $\approx$ lbs/mft	item no.	no. of conductors	nominal outer- $\phi$ inch	nominal outer- $\phi$ mm	cable weight $\approx$ lbs/mft
<b>▶ 18/7 AWG</b>					<b>▶ 16/7 AWG</b>				
38451802	2	0.224	5.7	43	38451602	2	0.236	6.0	52
38451803	3	0.240	6.1	53	38451603	3	0.256	6.5	63
38451804	4	0.260	6.6	64	38451604	4	0.280	7.1	78
38451805	5	0.280	7.1	75	38451605	5	0.303	7.7	92
38451806	6	0.303	7.7	87	38451606	6	0.327	8.3	106
38451808	8	0.343	8.7	111	38451608	8	0.370	9.4	136
38451810	10	0.362	9.2	119	38451610	10	0.390	9.9	148
38451812	12	0.378	9.6	137	38451612	12	0.409	10.4	169
38451814	14	0.398	10.1	155	38451614	14	0.433	11.0	201
38451816	16	0.429	10.9	182	38451616	16	0.465	11.8	227
38451818	18	0.449	11.4	200	38451618	18	0.496	12.6	257
38451820	20	0.469	11.9	221	38451620	20	0.520	13.2	284
38451825	25	0.520	13.2	265	38451625	25	0.563	14.3	332
38451830	30	0.555	14.1	307	38451630	30	0.606	15.4	387
38451836	36	0.579	14.7	356	38451636	36	0.634	16.1	460
38451842	42	0.654	16.6	422	38451642	42	0.693	17.6	530

Other dimensions and colors are possible on request.

E-mail: [info@sabcable.com](mailto:info@sabcable.com)



Web site: [www.sabcable.com](http://www.sabcable.com)