

Data & Sensor Cables

LiYCY (B) TP

Multi-pair signal and control cable with overall tinned copper braid and DIN color code



Marking for LiYCY (B) TP 03450325:

SAB BRÖCKSKES · D-VIERSEN · LiYCY (B) TP 3x2x0.25mm² CE

Construction:

Conductor:	bare copper strands with reference to VDE 0812
Insulation:	PVC, T12 acc. to EN 50363-3 + VDE 0207-363-3
Color code:	DIN 47100, see page O/26
Stranding:	conductors twisted to pairs, pairs twisted in layers
Wrapping:	PETP foil
Shielding:	tinned copper braiding with a tinned copper drain wire (22 AWG)
Jacket material:	PVC, TM2 acc. to EN 50363-4-1 + VDE 0207-363-4-1
Jacket color:	grayish tan (RAL 7032)

Technical data:

Peak operating voltage:	< 24 AWG = max. 350 V ≥ 24 AWG = max. 500 V
Testing voltage:	conductor/conductor: 1500 V conductor/shielding: 1200 V
Min. bending radius:	<i>fixed installation:</i> 5 x O.D. <i>free movement:</i> 10 x O.D.
Capacitance:	see page O/9
Radiation resistance:	8 x 10 ⁷ cJ/kg
Temperature range:	<i>static:</i> -30/+70°C <i>flexible:</i> -5/+70°C
Burning characteristics:	flame retardant and self-extinguishing acc. to IEC 60332-1-2 + VDE 0482-332-1-2
Oil resistance:	acc. to internal standard, see page O/29
Chemical resistance:	see page O/11
Approvals:	CE, EAC, RoHS
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30

Outstanding features:



- good EMC characteristics
- flexible
- small outer diameter
- small bending radius

item no.	no. of pairs	nominal outer-ø ± 10% inch	± 10% mm	cable weight ≈lbs/mft
▶ 26 AWG (≈ 18/38) ▪ 0.14 mm²				
03450214	2	0.205	5.2	23
03450314	3	0.224	5.7	28
03450414	4	0.256	6.5	36
03450514	5	0.276	7.0	40
03450614	6	0.283	7.2	46
03450814	8	0.307	7.8	54
03451014	10	0.350	8.9	67
03451214	12	0.382	9.7	75
03451614	16	0.413	10.5	91
03451814	18	0.437	11.1	107
03452014	20	0.437	11.1	110
03452414	24	0.504	12.8	136
03452514	25	0.504	12.8	139
03452814	28	0.516	13.1	148
03453014	30	0.543	13.8	159
03453614	36	0.575	14.6	185
03454014	40	0.587	14.9	199
03454414	44	0.642	16.3	234
03455214	52	0.669	17.0	261
03456114	61	0.720	18.3	298

item no.	no. of pairs	nominal outer-ø ± 10% inch	± 10% mm	cable weight ≈lbs/mft
▶ 24 AWG (≈ 14/34) ▪ 0.25 mm²				
03450225	2	0.224	5.7	28
03450325	3	0.252	6.4	37
03450425	4	0.283	7.2	45
03450625	6	0.311	7.9	57
03450825	8	0.354	9.0	73
03451025	10	0.386	9.8	89
03451225	12	0.429	10.9	108
03451625	16	0.469	11.9	131
03451825	18	0.500	12.7	149
03452425	24	0.559	14.2	181
▶ 22 AWG (≈ 7/30) ▪ 0.34 mm²				
03450234	2	0.268	6.8	38
03450334	3	0.291	7.4	48
03450434	4	0.346	8.8	67
03450534	5	0.374	9.5	78
03450634	6	0.382	9.7	86
03450834	8	0.417	10.6	97
03451234	12	0.528	13.4	151
03451634	16	0.575	14.6	188
03451834	18	0.594	15.1	206
03452434	24	0.693	17.6	279

item no.	no. of pairs	nominal outer-ø ± 10% inch	± 10% mm	cable weight ≈lbs/mft
▶ 20 AWG (≈ 16/32) ▪ 0.50 mm²				
03450250	2	0.283	7.2	44
03450350	3	0.311	7.9	56
03450450	4	0.370	9.4	75
03450650	6	0.409	10.4	98
03450850	8	0.429	10.9	112
03451050	10	0.520	13.2	154
03451250	12	0.567	14.4	180
03451650	16	0.642	16.3	247
03451850	18	0.665	16.9	268
03452050	20	0.665	16.9	281
03452450	24	0.748	19.0	330
▶ 19 AWG (≈ 23/32) ▪ 0.75 mm²				
03450275	2	0.335	8.5	62
03450375	3	0.370	9.4	75
03450475	4	0.429	10.9	101
03450675	6	0.492	12.5	146
03451275	12	0.673	17.1	259
03451675	16	0.732	18.6	324
03451875	18	0.760	19.3	359
03452475	24	0.858	21.8	444

Other dimensions and colors are available on request