

Feedback, Encoder & Transmission Cables



SL 839 C

Continuous flex composite polyurethane transmission cable with colored conductors and overall tinned copper shield



Marking for SL 839 C 8390122:

SAB BRÖCKSKES · D-VIERSEN · 8390122 SL 839 C 12 x 0.22 mm² **DESINA** AWM Style 20236 80°C 30V

Construction:

Conductor:	tinned copper strands acc. to VDE 0812
Insulation:	special polymer
Color code:	colored (see chart below)
	8390114, 8390214, & 8391050:
Shielding:	pairs shielded with tinned copper braiding
Inner jacket:	special polymer
Stranding:	conductors or pairs; twisted together in layers
Wrapping:	one non-woven tape or non-woven tape and PETP foil
Shielding:	tinned copper braiding
Wrapping:	non-woven tape
Jacket material:	PUR, TMPU acc. to EN 50363-10-2 + VDE 0207-363-10-2 with matte surface or PU acc. to UL 758
Jacket color:	green (RAL 6018)

Technical data:

Nominal voltage:	max. 30 V	
Voltage UL:	30 V	
Testing voltage:	conductor/conductor: 600 V conductor/shielding: 600 V	
Min. bending radius:		
fixed installation:	5 x O.D.	
free movement:	10 x O.D.	
for continuous flexing:	12 x O.D.	
Radiation resistance:	5 x 10 ⁷ cJ/kg	
Temperature range:	DIN VDE	UL/CSA: up to +80°C
static:	-40/+70°C	
flexible:	-20/+70°C	
Halogen-free:	acc. to IEC 60754-1 + VDE 0482-754-1	
Oil resistance:	very good - TMPU acc. to EN 50363-10-2 + VDE 0207-363-10-2; oil rating 60°C acc. to UL 758	
Chemical resistance:	good - against acids, alkalines, solvents, hydraulic liquids, etc.	
Weather resistance:	very good	
Approvals:	UR AWM, RoHS	
Absence of harmful substances:	acc. to RoHS directive of the European Union see page O/30	

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Outstanding features:

- UL recognized
- Good EMC characteristics
- Flexible and flexing installation
- Oil resistant
- Long service life
- Adhesion-free installation
- Halogen-free
- Suitable for cable tracks
- Free from paint wetting impairment substances (PWIS-free)
- **DESINA®** colors (see page G/3)



suitable for resolvers
and shaft encoders

item no.	dimensions	outer-ø		cable weight ≈lbs/mft	color codes
		inch	mm		
Jacket material TMPU acc. to DIN VDE 0282					
▶ 8390114	(0.14 mm ² /3pr)D + (20 AWG/2c)D	0.362 ± 0.016	9.2 ± 0.4	71	(GN/YE+BN/BK+OR/RD) - (RD+BK)
▶ 8390214	(0.14 mm ² /3pr)D + 0.14 mm ² + 20 AWG/2c	0.354 ± 0.016	9.0 ± 0.4	68	(RD/OR+BN/BK+GN/YE) - (BU+GY+WH-BK+WH-YE) - (BN-BU+BN-RD)
▶ 8391050	(0.14 mm ² /3pr)D + 0.14 mm ² /4c + 0.22 mm ² /4c + 20 AWG/2c	0.378 ± 0.016	9.6 ± 0.4	77	(RD/OR+BN/BK+GN/YE) - (BU+GY+WH-BK+WH-YE) - (BN-YE+GN-RD+BN-GY+GN-BK) - (BN-BU+BN-RD)
▶ 8390138	0.38 mm ² /4pr + 20 AWG/4c	0.346 ± 0.016	8.8 ± 0.4	75	(RD/OR+GN/YE+BU/VT+BN/BK) - (BK-WH+RD-WH+YE-WH+BU-WH)
▶ 8390318	0.18 mm ² /8pr	0.307 ± 0.016	7.8 ± 0.4	52	(WH/GY+VT/BU+GN/YE+OR/RD+BK/BN+WH-RD/WH-OR+WH-BK/WH-BN+WH-YE/WH-GN)
▶ 8390122	0.22 mm ² /12c	0.264 ± 0.016	6.7 ± 0.4	44	(RD+BK+BN+WH+GY+VT+BU+GN+YE+OR+WH-BN+WH-BK)
Jacket material PU acc. to UL 758					
▶ 8390118	0.18 mm ² /4c	0.193 ± 0.016	4.9 ± 0.4	20	(RD+BK+OR+BN)
▶ 8390218	0.18 mm ² /4pr	0.248 ± 0.016	6.3 ± 0.4	34	(VT/BU+GN/YE+OR/RD+BK/BN)
▶ 8390115	0.15 mm ² /2pr + 0.38 mm ² /2c	0.272 ± 0.012	6.9 ± 0.3	45	(GN/YE+BU/PK) + (RD+BK)
▶ 8390220	0.20 mm ² /2pr + 0.38 mm ² /2c	0.272 ± 0.012	6.9 ± 0.3	41	(GN/YE+BU/PK) + (RD+BK)

Other dimensions and colors are available on request
D = tinned copper spiral

Note: DESINA® is a registered trademark of the German Machine Tool Builders' Association.



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