Servo, drag-chain & OCT hybrid cables

SL 835 C 0.6/1 kV PUR

SL 835 C 0.6/1 kV Symmetrical PUR Servo Cable

DESINA orange symmetrical 3+3 halogen-free PUR drag-chain motor cable

DIN VDE 0250 | U0/U 0.6/1 kV · 4 kV AC | Halogen-free PUR



Application

SL 835 C 0.6/1 kV Symmetrical PUR combines three Class 6 bare copper phases with three symmetrical split earths, low-capacitance PP insulation, ≥ 85% tinned copper braid, and a DESINA orange PUR sheath for large dynamic servo motors.

Typical uses: Automated assembly & handling lines, CNC machine tools & gantry axes, Packaging, robotics & intralogistics, Factory servo drive & motion bays

Construction





Cross-section, not to scale

1	**Conductor**	IEC 60228 Class 5 flexible bare annealed copper · IEC 60228 Class 5
2	**Core insulation**	Low-capacitance polypropylene (PP) · DIN VDE 0250
3	**Core assembly & separator**	Concentric cabled assembly with low-friction fleece or polyester binder tape · DIN VDE 0250
4	**EMC metallic screen**	Fleece separator + ≥ 85% tinned copper braid shield · EMC ≥ 85% / 100% foil
5	**Outer sheath**	DESINA orange (RAL 2003) matte halogen-free PUR sheath · IEC 60332-1-2 Flame

Technical data

Typical values

Rated voltage U0/U	0.6/1 kV	AC test voltage	4 kV AC / 5 min
Conductor class	IEC 60228 Class 5 bare Cu	EMC screen	Fleece separator + ≥ 85% tinned copper
Insulation resistance	≥ 1,000 MΩ·km at 20 °C	Temp. range (fixed)	-50 °C to +90 °C
Temp. range (flexing)	-40 °C to +80 °C	Short-circuit temp.	+160 °C (5 s)
Min. bending radius	7.5 × OD (flexing)	Flame retardance	IEC 60332-1-2 Flame
Oil & chemical perf.	EN 60811-404 Oil	Environmental / EMC	Symmetrical 3+3 EMC
Outer sheath	DESINA orange (RAL 2003) matte		

Sizes

10 standard constructions

Tick the sizes you need and send this page to info@tebaoflex.com or WhatsApp +86 185 9591 3361.

Cores × mm²	Outer Ø ≈ mm	Max. R20 Ω/km	Copper index kg/km	Weight ≈ kg/km	Min. bend R 7.5×D mm
☐ 3×2.5 + 3G0.5	12.7	7.980	116	248	95
☐ 3×4 + 3G0.75	13.9	4.950	167	334	104
☐ 3×6 + 3G1	15.1	3.300	232	438	113
☐ 3×10 + 3G1.5	17.1	1.910	360	642	128
☐ 3×16 + 3G2.5	19.5	1.210	558	950	146
☐ 3×25 + 3G4	24.0	0.780	856	1,453	180
☐ 3×35 + 3G6	26.6	0.554	1,191	1,963	200
☐ 3×50 + 3G10	30.7	0.386	1,721	2,787	230
☐ 3×70 + 3G16	35.7	0.272	2,444	3,919	268
☐ 3×95 + 3G16	39.6	0.206	3,137	4,988	297

- Max. conductor DC resistance R20 at 20 °C per IEC 60228 (bare copper).
- Minimum bending radius calculated at 7.5 × nominal outer diameter (OD). Custom core counts and lengths available on request.

Standards and approvals

- DIN VDE 0250
- UL AWM Style 21223
- IEC 60228 Class 6
- EN 10204 3.1 Factory Test Certificate
- CE, RoHS 2 (2011/65/EU) & REACH

Certifications

Management systems: ISO 9001, ISO 14001, ISO 45001

Request a quotation

Send the size, length and destination. An application engineer replies within 2 business hours.

WhatsApp / phone
+86 185 9591 3361

Email
info@tebaoflex.com

Web
tebaoflex.com/cables/sl-835-c-0-6-1kv-symmetrical-pur-servo-cable

Typical values for this cable type, based on DIN VDE 0250 · UL AWM Style 21223 · IEC 60228 Class 6. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.