Servo, drag-chain & OCT hybrid cables

6FX8008-1BB / SM8 PUR

6FX8008-1BB (SM8) PUR Drag-Chain Servo Cable

DESINA orange halogen-free PUR dynamic servo motor power cable



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

Application

6FX8008-1BB (SM8) PUR provides Class 6 bare copper stranding, low-capacitance PP insulation, ≥ 85% tinned copper braid, and a DESINA orange matte halogen-free PUR sheath for dynamic industrial servo motor chains.

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 tape + ≥ 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 tape + ≥ 85% tinned copper braid
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	IEC 60754-1 Halogen-Free
Outer sheath	DESINA orange (RAL 2003) matte		

Sizes

9 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
☐ 4G1.5	11.6	13.300	84	191	87
☐ 4G2.5	12.8	7.980	123	259	96
☐ 4G4	14.1	4.950	181	355	106
☐ 4G6	15.5	3.300	257	478	116
☐ 4G10	18.7	1.910	411	743	140
☐ 4G16	22.4	1.210	638	1,128	168
☐ 4G25	25.5	0.780	974	1,650	191
☐ 4G35	29.4	0.554	1,348	2,261	220
☐ 4G50	33.1	0.386	1,903	3,115	248

- 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
- CSA AWM I/II A/B FT1
- 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/6fx8008-1bb-sm8-pur-drag-chain-servo-cable

Typical values for this cable type, based on DIN VDE 0250 · UL AWM Style 21223 · CSA AWM I/II A/B FT1. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.