Servo, drag-chain & OCT hybrid cables

CF29.D 6.8×d TPE Servo

CF29.D 6.8×d TPE Tight-Radius Drag-Chain Servo

Orange halogen-free TPE servo cable for tight 6.8×d energy chains



UL AWM Style 21223 | U0/U 0.6/1 kV · 4 kV AC | LSZH Halogen-Free

Application

CF29.D 6.8×d TPE Servo combines Class 6 extra-flexible bare copper conductors, TPE core insulation, ≥ 85% tinned copper braid, and a gusset-filled orange TPE outer sheath rated down to 6.8×d continuous drag-chain bending.

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	Ultra-flexible low-capacitance TPE · UL AWM Style 21223
3	Core assembly & separator	Concentric cabled assembly with low-friction fleece or polyester binder tape · UL AWM Style 21223
4	EMC metallic screen	Bending-resistant ≥ 85% tinned copper braid shield · EMC ≥ 85% / 100% foil
5	Outer sheath	DESINA orange (RAL 2003) gusset-filled halogen-free TPE sheath · 6.8×d Ultra-Tight Bend Radius

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**	Bending-resistant ≥ 85% tinned copper
Insulation resistance	≥ 1,000 MΩ·km at 20 °C	**Temp. range (fixed)**	-40 °C to +90 °C
Temp. range (flexing)	-35 °C to +90 °C	**Short-circuit temp.**	+160 °C (5 s)
Min. bending radius	6.8 × OD (flexing)	**Flame retardance**	6.8×d Ultra-Tight Bend Radius
Oil & chemical perf.	Bio-Oil & Coolant Resistant TPE	**Environmental / EMC**	IEC 60754-1 Halogen-Free
Outer sheath	DESINA orange (RAL 2003) gusset-filled		

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 6.8×D mm
☐ 4G1.5	11.6	13.300	84	191	79
☐ 4G2.5	12.8	7.980	123	259	87
☐ 4G4	14.1	4.950	181	355	96
☐ 4G6	15.5	3.300	257	478	105
☐ 4G10	18.7	1.910	411	743	127
☐ 4G16	22.4	1.210	638	1,128	152
☐ 4G25	25.5	0.780	974	1,650	173
☐ 4G35	29.4	0.554	1,348	2,261	200
☐ 4G50	33.1	0.386	1,903	3,115	225

- Max. conductor DC resistance R20 at 20 °C per IEC 60228 (bare copper).
- Minimum bending radius calculated at 6.8 × nominal outer diameter (OD). Custom core counts and lengths available on request.

Standards and approvals

- UL AWM Style 21223
- DIN VDE 0250
- 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/cf29-d-6-8xd-tpe-ultra-flex-servo-cable

Typical values for this cable type, based on UL AWM Style 21223 · DIN VDE 0250 · 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.