Servo, drag-chain & OCT hybrid cables

108 PVC / 6FX5008 0.6/1 kV

108 PVC (6FX5008) 0.6/1 kV Servo Motor Cable

DESINA orange PVC screened servo motor power & brake cable for fixed runs

DIN VDE 0250 | U0/U 0.6/1 kV · 4 kV AC | EMC Screened



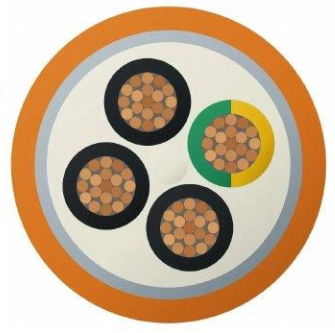
Application

108 PVC (6FX5008) 0.6/1 kV provides Class 5 bare copper conductors, low-capacitance PP insulation, ≥ 85% tinned copper braid, and a DESINA orange PVC sheath engineered for stationary servo motor power feeds.

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	Foil separator + ≥ 85% tinned copper braid shield · EMC ≥ 85% / 100% foil
5	Outer sheath	DESINA orange (RAL 2003) flame-retardant PVC 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	Foil separator + ≥ 85% tinned copper
Insulation resistance	≥ 1,000 MΩ·km at 20 °C	Temp. range (fixed)	-40 °C to +80 °C
Temp. range (flexing)	-5 °C to +70 °C	Short-circuit temp.	+160 °C (5 s)
Min. bending radius	10 × OD (fixed)	Flame retardance	IEC 60332-1-2 Flame
Oil & chemical perf.	UL VW-1 / CSA FT1	Environmental / EMC	Oil Resistant PVC
Outer sheath	DESINA orange (RAL 2003) flame-retardant		

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 10×D mm
☐ 4G1.5	11.6	13.300	84	191	116
☐ 4G2.5	12.8	7.980	123	259	128
☐ 4G4	14.1	4.950	181	355	141
☐ 4G6	15.5	3.300	257	478	155
☐ 4G10	18.7	1.910	411	743	187
☐ 4G16	22.4	1.210	638	1,128	224
☐ 4G25	25.5	0.780	974	1,650	255
☐ 4G35	29.4	0.554	1,348	2,261	294
☐ 4G50	33.1	0.386	1,903	3,115	331

- Max. conductor DC resistance R20 at 20 °C per IEC 60228 (bare copper).
- Minimum bending radius calculated at 10 × nominal outer diameter (OD). Custom core counts and lengths available on request.

Standards and approvals

- DIN VDE 0250
- UL AWM Style 2570
- IEC 60228 Class 5
- 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/108-pvc-6fx5008-0-6-1kv-fixed-servo-motor-cable

Typical values for this cable type, based on DIN VDE 0250 · UL AWM Style 2570 · IEC 60228 Class 5. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.