Servo, drag-chain & OCT hybrid cables

ZK4800-8222 Compact 9mm OCT

ZK4800-8222 Compact 9 mm PUR OCT Servo Cable

Slim-OD 9 mm PUR drag-chain one-cable servo power & feedback hybrid



UL AWM Style 21223 | **U0/U 0.6/1 kV · 4 kV AC** | **Halogen-free PUR**

Application

ZK4800-8222 Compact 9 mm OCT packs Class 6 bare copper power cores and a shielded digital OCT feedback element into an ultra-compact ~9 mm DESINA orange PUR jacket for space-limited robotic and M17/M23 drives.

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**	Thin-wall low-capacitance PP + foamed PE (OCT pair) · 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**	Individually shielded OCT digital pair + overall ≥ 85% tinned Cu braid · EMC ≥ 85% / 100% foil
5	**Outer sheath**	DESINA orange (RAL 2003) compact 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**	Individually shielded OCT digital pair +
Insulation resistance	≥ 1,000 MΩ·km at 20 °C	**Temp. range (fixed)**	-40 °C to +80 °C
Temp. range (flexing)	-30 °C to +80 °C	**Short-circuit temp.**	+160 °C (5 s)
Min. bending radius	7 × OD (flexing)	**Flame retardance**	IEC 60332-1-2 Flame
Oil & chemical perf.	EN 60811-404 Oil	**Environmental / EMC**	Compact ~9 mm OD
Outer sheath	DESINA orange (RAL 2003) compact		

Sizes

4 standard constructions

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

Hybrid Config mm²	Outer Ø ≈ mm	Max. R20 Ω/km	Copper index kg/km	Weight ≈ kg/km	Min. bend R 7×D mm
☐ 4G0.75 + 2×0.25	8.2	26.000	60	125	57
☐ 4G1 + 2×0.25	8.6	19.500	71	144	60
☐ 4G1.5 + 2×0.5 + 2×0.25	9.1	13.300	100	188	64
☐ 4G2.5 + 2×0.75 + 2×0.25	10.6	7.980	146	269	74

- Max. conductor DC resistance R20 at 20 °C per IEC 60228 (bare copper).
- Minimum bending radius calculated at 7 × 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/zk4800-8222-compact-9mm-pur-oct-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.