Servo, drag-chain & OCT hybrid cables

ZK4800-8524 Low-Cap OCT

ZK4800-8524 Low-Cap PUR OCT Hybrid Servo Cable

Low-capacitance orange PUR drag-chain OCT power, brake & data cable

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



Application

ZK4800-8524 Low-Cap OCT uses extra-low-capacitance PP/foamed-PE insulation, Class 6 bare copper power cores, shielded brake and digital OCT pairs, and a DESINA orange PUR sheath for long-run single-cable servo 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	Extra-low-capacitance PP + foamed PO (100 Ω 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 + brake pairs + overall ≥ 85% tinned Cu braid · 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**	Individually shielded OCT + brake pairs +
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	7.5 × OD (flexing)	**Flame retardance**	IEC 60332-1-2 Flame
Oil & chemical perf.	EN 60811-404 Oil	**Environmental / EMC**	Low-Capacitance OCT
Outer sheath	DESINA orange (RAL 2003) matte		

Sizes

6 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 7.5×D mm
☐ 4G1.5 + 2×0.75 + 2×0.25	11.4	13.300	112	236	86
☐ 4G2.5 + 2×1 + 2×0.25	12.8	7.980	159	321	96
☐ 4G4 + 2×1 + 2×0.25	14.6	4.950	220	435	110
☐ 4G6 + 2×1.5 + 2×0.25	16.9	3.300	310	603	127
☐ 4G10 + 2×1.5 + 2×0.25	19.8	1.910	468	884	148
☐ 4G16 + 2×1.5 + 2×0.25	23.2	1.210	700	1,290	174

- 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

- ✓ 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/zk4800-8524-low-cap-pur-oct-hybrid-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.