Servo, drag-chain & OCT hybrid cables

ZK4800-8025 M40 70A OCT

ZK4800-8025 M40 70 A High-Current OCT Servo Cable

Heavy-gauge 0.6/1 kV PUR drag-chain OCT cable for M40 70 A drives

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



Application

ZK4800-8025 M40 70 A OCT pairs large-section Class 6 bare copper power phases (6–16 mm²) with shielded brake and 100 Ω digital feedback pairs inside a rugged DESINA orange PUR sheath for high-torque servo motors.

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**	90 °C 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) heavy-duty 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 +90 °C
Temp. range (flexing)	-30 °C to +80 °C	**Short-circuit temp.**	+160 °C (5 s)
Min. bending radius	8 × OD (flexing)	**Flame retardance**	IEC 60332-1-2 Flame
Oil & chemical perf.	EN 60811-404 Oil	**Environmental / EMC**	Up to 70 A M40 Drive Duty
Outer sheath	DESINA orange (RAL 2003) heavy-duty		

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 8×D mm
☐ 4G6 + 2×1.5 + 2×0.34	17.8	3.300	315	631	142
☐ 4G10 + 2×1.5 + 2×0.34	20.6	1.910	472	912	165
☐ 4G16 + 2×1.5 + 2×0.34	23.8	1.210	704	1,314	190
☐ 4G25 + 2×1.5 + 2×0.34	28.4	0.780	1,050	1,934	227

- Max. conductor DC resistance R20 at 20 °C per IEC 60228 (bare copper).
- Minimum bending radius calculated at 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/zk4800-8025-m40-70a-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.