Servo, drag-chain & OCT hybrid cables

M-C-PUR-HY 0.6/1 kV OCT

Hybrid Servo Cable

One-Cable Technology (OCT) PUR drag-chain power, brake & DSL cable



DIN VDE 0250 | U0/U 0.6/1 kV · 4 kV AC | Halogen-free PUR

Application

M-C-PUR-HY 0.6/1 kV OCT consolidates 1000 V tinned copper power cores, a shielded brake pair, and a 100 Ω shielded DSL digital feedback pair inside one DESINA orange halogen-free PUR drag-chain jacket.

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 tinned annealed copper · IEC 60228 Class 5
2	Core insulation	Low-capacitance PP (power) + foamed PO (100 Ω DSL pair) · 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	Individually shielded DSL + brake pairs + overall ≥ 85% tinned Cu braid · EMC ≥ 85% / 100% foil
5	Outer sheath	DESINA orange (RAL 2003) 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 tinned Cu	**EMC screen**	Individually shielded DSL + 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	7.5 × OD (flexing)	**Flame retardance**	IEC 60332-1-2 Flame
Oil & chemical perf.	EN 60811-404 Oil	**Environmental / EMC**	100 Ω DSL Feedback Pair
Outer sheath	DESINA orange (RAL 2003) halogen-free PUR		

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	13.672	112	236	86
☐	4G2.5 + 2×1 + 2×0.25	12.8	8.203	159	321	96
☐	4G4 + 2×1 + 2×0.25	14.6	5.089	220	435	110
☐	4G6 + 2×1.5 + 2×0.25	16.9	3.392	310	603	127
☐	4G10 + 2×1.5 + 2×0.25	19.8	1.964	468	884	148
☐	4G16 + 2×1.5 + 2×0.25	23.2	1.244	700	1,290	174

- Max. conductor DC resistance R20 at 20 °C per IEC 60228 (tinned copper).
- Minimum bending radius calculated at 7.5 × nominal outer diameter (OD). Custom core counts and lengths available on request.

Standards and approvals

- DIN VDE 0250
- UL AWM Style 21223
- 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/m-c-pur-hy-0-6-1kv-oct-hybrid-servo-cable

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