Power & distribution cables

ROZ1-K (EMC) 0.6/1kV IEC 60502-1



IEC 60502-1 / IEC 60332-3-24 · 0.6/1 kV (Test 3.5 kV) · -25°C to +90°C · Min. bend 12 × OD

IEC 60502-1 / IEC 60332-3-24 | 0.6/1 kV

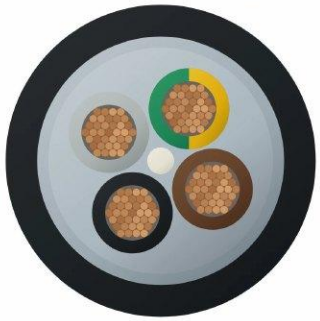
Application

ROZ1-K (EMC) 0.6/1kV IEC 60502-1 manufactured to IEC 60502-1 / IEC 60332-3-24, rated 0.6/1 kV (Test 3.5 kV) and -25°C to +90°C with a 12 × OD minimum bending radius for infrastructure & construction installations.

Typical uses: Power distribution & utility networks, Railways, tunnels & public infrastructure, Process instrumentation & oil/gas skids, Industrial automation & control cabinets, Renewable energy, marine & heavy industry

Construction





Cross-section, not to scale

1	**Conductor**	4G6.0 mm² Class 5 Flexible Bare Cu
2	**Insulation & Core Identification**	90°C XLPE insulation (6.0 mm² Class 5 Flexible Bare Copper)
3	**Screen / Bedding / Armour Layer**	PES separator tape + 100% Al/PES foil tape screen + Tinned Copper Wire Braid (TCWB) EMC screen
4	**Outer Protective Sheath**	Black Compound ST8 Low Smoke Zero Halogen (LSZH) outer sheath (OD 15.20 mm)

Technical data

Typical values

Nominal / reference voltage	0.6/1 kV (Test 3.5 kV)	Conductor & core insulation	4G6.0 mm² Class 5 Flexible Bare Cu · 90°C XLPE insulation (6.0 mm² Class 5 Flexible Bare Copper)
Routine dielectric / continuity test	100% factory drum spark & continuity verified	Operating temperature range	-25°C to +90°C
Short-circuit / peak thermal limit	+160 °C to +250 °C (5 s conductor thermal limit)	Flame & fire performance	IEC 60502-1 / IEC 60332-3-24
Minimum bending radius	12 × OD	Screening / armour architecture	PES separator tape + 100% Al/PES foil tape screen + Tinned Copper Wire Braid (TCWB) EMC screen
Outer sheath material & colour	Black Compound ST8 Low Smoke Zero Halogen (LSZH) outer sheath (OD 15.20 mm)	Standards	IEC 60502-1 / IEC 60332-3-24

Sizes

3 standard constructions

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

Part designation	Configuration	Conductor & shield	Insulation / wall	Outer sheath	Outer diameter mm	Min. bend radius mm	Max. conductor resistance @ 20 °C Ω/km	Copper weight kg/km	Cable weight kg/km	Key electrical / optical rating
ROZ1-K (EMC) 0.6/1kV IEC 60502-1 3 sizes										
☐ ROZ1-K (EMC) 0.6/1kV IEC 60502-1 (4G6 mm²)	4G6 mm²	Class 5 Flexible Plain Copper	90°C XLPE insulation	LSZH Jacket	15.2	182	3.02	282.4	543	43 A
☐ ROZ1-K (EMC) 0.6/1kV IEC 60502-1 (4G10 mm²)	4G10 mm²	Class 5 Flexible Plain Copper	90°C XLPE insulation	LSZH Jacket	17.9	215	1.81	393.1	756	60 A
☐ ROZ1-K (EMC) 0.6/1kV IEC 60502-1 (4G16 mm²)	4G16 mm²	Class 5 Flexible Plain Copper	90°C XLPE insulation	LSZH Jacket	21.0	252	1.13	537.7	1,034	80 A

– Dimensions and weights are nominal manufacturing targets subject to standard production tolerances.

Standards and approvals

- ✓ IEC 60502-1 / IEC 60332-3-24 Compliant
- ✓ EN 10204 3.1 Factory Test Certificate
- ✓ CE, UKCA, 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/roz1-k-emc-0-6-1kv-iec-60502-1

Typical values for this cable type, based on Reference specification per IEC 60502-1 / IEC 60332-3-24 (ROZ1-K (EMC) 0.6/1kV IEC 60502-1). Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.