Power & distribution cables

NA2XCY 0.6/1kV IEC 60502-1 Aluminium

Concentric Copper Screened Cable

IEC 60502-1 / VDE 0276-603 · 0.6/1 kV · -25°C to +90°C · Min. bend 12 × OD

IEC 60502-1 / VDE 0276-603 | 0.6/1 kV



Application

NA2XCY 0.6/1kV IEC 60502-1 Aluminium Concentric Copper Screened Cable manufactured to IEC 60502-1 / VDE 0276-603, rated 0.6/1 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	4×35/16 mm² Class 2 Stranded Al
2	Insulation & Core Identification	IEC 60502-1 XLPE core insulation (35 mm² Class 2 Stranded Aluminium)
3	Screen / Bedding / Armour Layer	Extruded PVC inner bedding compound + Concentric copper wires + counter-helix copper tape screen (16 mm²)
4	Outer Protective Sheath	Black DMV5 flame-retardant PVC outer sheath (OD 26.8 mm)

Technical data

Typical values

Nominal / reference voltage	0.6/1 kV	Conductor & core insulation	4×35/16 mm² Class 2 Stranded Al · IEC 60502-1 XLPE core insulation (35 mm² Class 2 Stranded Aluminium)
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 / VDE 0276-603
Minimum bending radius	12 × OD	Screening / armour architecture	Extruded PVC inner bedding compound + Concentric copper wires + counter-helix copper tape screen (16 mm²)
Outer sheath material & colour	Black DMV5 flame-retardant PVC outer sheath (OD 26.8 mm)	Standards	IEC 60502-1 / VDE 0276-603

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	Conductor weight kg/km	Cable weight kg/km	Key electrical / optical rating
NA2XCY 0.6/1kV IEC 60502-1 Aluminium 3 sizes										
☐ NA2XCY 0.6/1kV IEC 60502-1 Aluminium (4×35/16 mm²)	4×35/16 mm²	Class 2 Compacted Stranded Aluminium	IEC 60502-1 XLPE core insulation	Industrial PVC	26.8	322	0.81	450.3	1,185	101 A
☐ NA2XCY 0.6/1kV IEC 60502-1 Aluminium (4×50/16 mm²)	4×50/16 mm²	Class 2 Compacted Stranded Aluminium	IEC 60502-1 XLPE core insulation	Industrial PVC	31.6	379	0.56	627.0	1,650	122 A
☐ NA2XCY 0.6/1kV IEC 60502-1 Aluminium (4×70/16 mm²)	4×70/16 mm²	Class 2 Compacted Stranded Aluminium	IEC 60502-1 XLPE core insulation	Industrial PVC	37.0	444	0.40	857.7	2,257	155 A

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

Standards and approvals

- ✓ IEC 60502-1 / VDE 0276-603 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/na2xcy-0-6-1kv-iec-60502-1-aluminium-concentric-copper-screened-cable

Typical values for this cable type, based on Reference specification per IEC 60502-1 / VDE 0276-603 (NA2XCY 0.6/1kV IEC 60502-1 Aluminium). Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.