Power & distribution cables

NA2X2Y 0.6/1kV–1.8/3kV IEC 60502-1 Aluminium

XLPE/MDPE Cable



DIN VDE 0276-603 / IEC 60502-1 · 0.6/1 kV – 1.8/3 kV · -25°C to +90°C · Min. bend 15 × OD

DIN VDE 0276-603 / IEC 60502-1 | 0.6/1–1.8/3 kV

Application

NA2X2Y 0.6/1kV–1.8/3kV IEC 60502-1 Aluminium XLPE/MDPE Cable manufactured to DIN VDE 0276-603 / IEC 60502-1, rated 0.6/1 kV – 1.8/3 kV and -25°C to +90°C with a 15 × OD minimum bending radius for renewable energy 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	4×50 mm² Class 2 Compacted Al
2	Insulation & Core Identification	IEC 60502-1 XLPE core insulation (50 mm² Class 2 Compacted Aluminium)
3	Screen / Bedding / Armour Layer	Extruded non-hygroscopic inner filler
4	Outer Protective Sheath	Black Medium-Density Polyethylene (MDPE) outer sheath (OD 28.5 mm)

Technical data

Typical values

Nominal / reference voltage	0.6/1 kV – 1.8/3 kV	Conductor & core insulation	4×50 mm² Class 2 Compacted Al · IEC 60502-1 XLPE core insulation (50 mm² Class 2 Compacted 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	DIN VDE 0276-603 / IEC 60502-1
Minimum bending radius	15 × OD	Screening / armour architecture	Extruded non-hygroscopic inner filler
Outer sheath material & colour	Black Medium-Density Polyethylene (MDPE) outer sheath (OD 28.5 mm)	Standards	DIN VDE 0276-603 / IEC 60502-1

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
NA2X2Y 0.6/1kV–1.8/3kV IEC 60502-1 Aluminium 3 sizes										
☐ NA2X2Y 0.6/1kV–1.8/3kV IEC 60502-1 Aluminium (4×50 mm²)	4×50 mm²	Class 2 Compacted Stranded Aluminium	IEC 60502-1 XLPE core insulation	Outdoor PE	28.5	428	0.56	509.2	1,340	122 A
☐ NA2X2Y 0.6/1kV–1.8/3kV IEC 60502-1 Aluminium (4×70 mm²)	4×70 mm²	Class 2 Compacted Stranded Aluminium	IEC 60502-1 XLPE core insulation	Outdoor PE	33.6	504	0.40	709.1	1,866	155 A
☐ NA2X2Y 0.6/1kV–1.8/3kV IEC 60502-1 Aluminium (4×95 mm²)	4×95 mm²	Class 2 Compacted Stranded Aluminium	IEC 60502-1 XLPE core insulation	Outdoor PE	39.3	590	0.30	969.8	2,552	188 A

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

Standards and approvals

- ✓ DIN VDE 0276-603 / IEC 60502-1 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/na2x2y-0-6-1kv-1-8-3kv-iec-60502-1-aluminium-xlpe-mdpe-cable

Typical values for this cable type, based on Reference specification per DIN VDE 0276-603 / IEC 60502-1 (NA2X2Y 0.6/1kV–1.8/3kV 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.