Power & distribution cables

NA2XY-J / NA2XY-O 0.6/1kV–1.8/3kV VDE 0276-603



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

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

Application

NA2XY-J / NA2XY-O 0.6/1kV–1.8/3kV VDE 0276-603 manufactured to DIN VDE 0276-603 / HD 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	4G35 mm² RM Class 2 Stranded Al
2	Insulation & Core Identification	VDE 0276-603 2XI1 XLPE core insulation (35 mm² Class 2 Aluminium)
3	Screen / Bedding / Armour Layer	Unvulcanised inner filling compound
4	Outer Protective Sheath	Black DMV5 flame-retardant PVC outer sheath (OD 25.0 mm)

Technical data

Typical values

Nominal / reference voltage	0.6/1 kV – 1.8/3 kV	Conductor & core insulation	4G35 mm² RM Class 2 Stranded Al · VDE 0276-603 2XI1 XLPE core insulation (35 mm² Class 2 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 / HD 603 / IEC 60502-1
Minimum bending radius	15 × OD	Screening / armour architecture	Unvulcanised inner filling compound
Outer sheath material & colour	Black DMV5 flame-retardant PVC outer sheath (OD 25.0 mm)	Standards	DIN VDE 0276-603 / HD 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
NA2XY-J / NA2XY-O 0.6/1kV–1.8/3kV VDE 0276-603 3 sizes										
☐ NA2XY-J / NA2XY-O 0.6/1kV–1.8/3kV VDE 0276-603 (4G35 mm²)	4G35 mm²	Class 2 Compacted Stranded Aluminium	VDE 0276-603 2XI1 XLPE core insulation	Industrial PVC	25.0	375	0.81	391.8	1,031	101 A
☐ NA2XY-J / NA2XY-O 0.6/1kV–1.8/3kV VDE 0276-603 (4G50 mm²)	4G50 mm²	Class 2 Compacted Stranded Aluminium	VDE 0276-603 2XI1 XLPE core insulation	Industrial PVC	29.5	442	0.56	545.7	1,436	122 A
☐ NA2XY-J / NA2XY-O 0.6/1kV–1.8/3kV VDE 0276-603 (4G70 mm²)	4G70 mm²	Class 2 Compacted Stranded Aluminium	VDE 0276-603 2XI1 XLPE core insulation	Industrial PVC	34.5	518	0.40	746.3	1,964	155 A

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

Standards and approvals

- ✓ DIN VDE 0276-603 / HD 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/na2xy-j-na2xy-o-0-6-1kv-1-8-3kv-vde-0276-603**

Typical values for this cable type, based on Reference specification per DIN VDE 0276-603 / HD 603 / IEC 60502-1 (NA2XY-J / NA2XY-O 0.6/1kV–1.8/3kV VDE 0276-603). Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.