Power & distribution cables

NAYY-J / NAYY-O 0.6/1kV VDE 0276-603 Aluminium

PVC/PVC Cable

DIN VDE 0276-603 / IEC 60502-1 · 0.6/1 kV · -15°C to +70°C · Min. bend 12 × OD



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

Application

NAYY-J / NAYY-O 0.6/1kV VDE 0276-603 Aluminium PVC/PVC Cable manufactured to DIN VDE 0276-603 / IEC 60502-1, rated 0.6/1 kV and -15°C to +70°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	5G16 mm² RE/RM Aluminium
2	Insulation & Core Identification	VDE 0276-603 DIV4 PVC core insulation (16 mm² Aluminium)
3	Screen / Bedding / Armour Layer	Unvulcanised filling compound
4	Outer Protective Sheath	Black DMV5 flame-retardant PVC outer sheath (OD 22.8 mm)

Technical data

Typical values

Nominal / reference voltage	0.6/1 kV	Conductor & core insulation	5G16 mm² RE/RM Aluminium · VDE 0276-603 DIV4 PVC core insulation (16 mm² Aluminium)
Routine dielectric / continuity test	100% factory drum spark & continuity verified	Operating temperature range	-15°C to +70°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	12 × OD	Screening / armour architecture	Unvulcanised filling compound
Outer sheath material & colour	Black DMV5 flame-retardant PVC outer sheath (OD 22.8 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
NAYY-J / NAYY-O 0.6/1kV VDE 0276-603 Aluminium 3 sizes										
☐ NAYY-J / NAYY-O 0.6/1kV VDE 0276-603 Aluminium (5G16 mm²)	5G16 mm²	Class 1/2 Aluminium	VDE 0276-603 DIV4 PVC core insulation	Industrial PVC	22.8	274	1.76	326.0	858	61 A
☐ NAYY-J / NAYY-O 0.6/1kV VDE 0276-603 Aluminium (5G25 mm²)	5G25 mm²	Class 1/2 Aluminium	VDE 0276-603 DIV4 PVC core insulation	Industrial PVC	26.9	323	1.13	453.7	1,194	81 A
☐ NAYY-J / NAYY-O 0.6/1kV VDE 0276-603 Aluminium (5G35 mm²)	5G35 mm²	Class 1/2 Aluminium	VDE 0276-603 DIV4 PVC core insulation	Industrial PVC	31.5	378	0.81	620.5	1,633	101 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/nayy-j-nayy-o-0-6-1kv-vde-0276-603-aluminium-pvc-pvc-cable

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