Power & distribution cables

NY2Y-J / NY2Y-O 0.6/1kV VDE 0276-603 Copper

PVC/HDPE 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

NY2Y-J / NY2Y-O 0.6/1kV VDE 0276-603 Copper PVC/HDPE 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**	4G16 mm² RM Class 2 Stranded Cu
2	**Insulation & Core Identification**	VDE 0276-603 DIV4 PVC core insulation (16 mm² Class 2 Stranded Copper)
3	**Screen / Bedding / Armour Layer**	Extruded PVC inner filling compound
4	**Outer Protective Sheath**	Black DMP2 High-Density Polyethylene (HDPE) outer sheath (OD 21.2 mm)

Technical data

Typical values

Nominal / reference voltage	0.6/1 kV	Conductor & core insulation	4G16 mm² RM Class 2 Stranded Cu · VDE 0276-603 DIV4 PVC core insulation (16 mm² Class 2 Stranded Copper)
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	Extruded PVC inner filling compound
Outer sheath material & colour	Black DMP2 High-Density Polyethylene (HDPE) outer sheath (OD 21.2 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	Copper weight kg/km	Cable weight kg/km	Key electrical / optical rating
NY2Y-J / NY2Y-O 0.6/1kV VDE 0276-603 Copper 3 sizes										
☐ NY2Y-J / NY2Y-O 0.6/1kV VDE 0276-603 Copper (4G16 mm²)	4G16 mm²	Class 2 Stranded Plain Copper	VDE 0276-603 DIV4 PVC core insulation	Outdoor PE	21.2	254	1.13	549.1	1,056	80 A
☐ NY2Y-J / NY2Y-O 0.6/1kV VDE 0276-603 Copper (4G25 mm²)	4G25 mm²	Class 2 Stranded Plain Copper	VDE 0276-603 DIV4 PVC core insulation	Outdoor PE	25.0	300	0.72	764.9	1,471	106 A
☐ NY2Y-J / NY2Y-O 0.6/1kV VDE 0276-603 Copper (4G35 mm²)	4G35 mm²	Class 2 Stranded Plain Copper	VDE 0276-603 DIV4 PVC core insulation	Outdoor PE	29.3	352	0.52	1,045.7	2,011	131 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/ny2y-j-ny2y-o-0-6-1kv-vde-0276-603-copper-pvc-hdpe-cable

Typical values for this cable type, based on Reference specification per DIN VDE 0276-603 / IEC 60502-1 (NY2Y-J / NY2Y-O 0.6/1kV VDE 0276-603 Copper). Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.