Power & distribution cables

NAYCWY 0.6/1kV VDE 0276-603 Waveform

Concentric Copper Screen Al Cable



DIN VDE 0276-603 / HD 603 S1 · 0.6/1 kV · -15°C to +70°C · Min. bend 12 × OD

DIN VDE 0276-603 / HD 603 S1 | 0.6/1 kV

Application

NAYCWY 0.6/1kV VDE 0276-603 Waveform Concentric Copper Screen Al Cable manufactured to DIN VDE 0276-603 / HD 603 S1, 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	3×50/25 mm² Stranded Al
2	Insulation & Core Identification	VDE 0276-603 DIV4 PVC core insulation (50 mm² Stranded Aluminium)
3	Screen / Bedding / Armour Layer	Extruded EPDM elastomeric inner bedding sheath + Waveform (Ceander) concentric bare copper wires + copper tape counter-helix (25 mm²)
4	Outer Protective Sheath	Black UV-resistant DMV5 PVC outer sheath (OD 30.5 mm)

Technical data

Typical values

Nominal / reference voltage	0.6/1 kV	Conductor & core insulation	3×50/25 mm² Stranded Al · VDE 0276-603 DIV4 PVC core insulation (50 mm² Stranded 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 / HD 603 S1
Minimum bending radius	12 × OD	Screening / armour architecture	Extruded EPDM elastomeric inner bedding sheath + Waveform (Ceander) concentric bare copper wires + copper tape counter-helix (25 mm²)
Outer sheath material & colour	Black UV-resistant DMV5 PVC outer sheath (OD 30.5 mm)	Standards	DIN VDE 0276-603 / HD 603 S1

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
NAYCWY 0.6/1kV VDE 0276-603 Waveform 3 sizes										
☐ NAYCWY 0.6/1kV VDE 0276-603 Waveform (3×50/25 mm²)	3×50/25 mm²	Class 2 Compacted Stranded Aluminium	VDE 0276-603 DIV4 PVC core insulation	Industrial PVC	30.5	366	0.56	583.3	1,535	122 A
☐ NAYCWY 0.6/1kV VDE 0276-603 Waveform (3×70/25 mm²)	3×70/25 mm²	Class 2 Compacted Stranded Aluminium	VDE 0276-603 DIV4 PVC core insulation	Industrial PVC	36.0	432	0.40	812.1	2,137	155 A
☐ NAYCWY 0.6/1kV VDE 0276-603 Waveform (3×95/25 mm²)	3×95/25 mm²	Class 2 Compacted Stranded Aluminium	VDE 0276-603 DIV4 PVC core insulation	Industrial PVC	42.1	505	0.30	1,110.7	2,923	188 A

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

Standards and approvals

- ✓ DIN VDE 0276-603 / HD 603 S1 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/naycwy-0-6-1kv-vde-0276-603-waveform-concentric-copper-screen-al-cable

Typical values for this cable type, based on Reference specification per DIN VDE 0276-603 / HD 603 S1 (NAYCWY 0.6/1kV VDE 0276-603 Waveform). Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.