Power & distribution cables

N2XCH 0.6/1kV VDE 0276-604 Concentric Copper

Screened LSZH Cable

DIN VDE 0276-604 / IEC 60502-1 · 0.6/1 kV · -25°C to +90°C · Min. bend 12 × OD



DIN VDE 0276-604 / IEC 60502-1 | 0.6/1 kV

Application

N2XCH 0.6/1kV VDE 0276-604 Concentric Copper Screened LSZH Cable manufactured to DIN VDE 0276-604 / IEC 60502-1, rated 0.6/1 kV and -25°C to +90°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**	4×16/16 mm² Class 2 Stranded Cu
2	**Insulation & Core Identification**	VDE 0276-604 2XI1 XLPE core insulation (16 mm² Class 2 Copper)
3	**Screen / Bedding / Armour Layer**	Extruded halogen-free inner bedding compound + Concentric copper wires + counter-helix copper tape screen (16 mm² CWS)
4	**Outer Protective Sheath**	Black HM4 FRNC / Low Smoke Zero Halogen outer sheath (OD 22.5 mm)

Technical data

Typical values

Nominal / reference voltage	0.6/1 kV	Conductor & core insulation	4×16/16 mm² Class 2 Stranded Cu · VDE 0276-604 2XI1 XLPE core insulation (16 mm² Class 2 Copper)
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 0276-604 / IEC 60502-1
Minimum bending radius	12 × OD	Screening / armour architecture	Extruded halogen-free inner bedding compound + Concentric copper wires + counter-helix copper tape screen (16 mm² CWS)
Outer sheath material & colour	Black HM4 FRNC / Low Smoke Zero Halogen outer sheath (OD 22.5 mm)	Standards	DIN VDE 0276-604 / 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
N2XCH 0.6/1kV VDE 0276-604 Concentric Copper 3 sizes										
☐ N2XCH 0.6/1kV VDE 0276-604 Concentric Copper (4×16/16 mm²)	4×16/16 mm²	Class 2 Stranded Plain Copper	VDE 0276-604 2XI1 XLPE core insulation	LSZH Jacket	22.5	270	1.13	618.8	1,190	80 A
☐ N2XCH 0.6/1kV VDE 0276-604 Concentric Copper (4×25/16 mm²)	4×25/16 mm²	Class 2 Stranded Plain Copper	VDE 0276-604 2XI1 XLPE core insulation	LSZH Jacket	26.5	318	0.72	861.6	1,657	106 A
☐ N2XCH 0.6/1kV VDE 0276-604 Concentric Copper (4×35/16 mm²)	4×35/16 mm²	Class 2 Stranded Plain Copper	VDE 0276-604 2XI1 XLPE core insulation	LSZH Jacket	31.0	372	0.52	1,178.3	2,266	131 A

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

Standards and approvals

- ✓ DIN VDE 0276-604 / 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/n2xch-0-6-1kv-vde-0276-604-concentric-copper-screened-lszh-cable

Typical values for this cable type, based on Reference specification per DIN VDE 0276-604 / IEC 60502-1 (N2XCH 0.6/1kV VDE 0276-604 Concentric Copper). Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.