



power connection cable series

N2XH

LSZH Power Cable

DIN VDE 0276-604 0.6/1 kV XLPE-insulated LSZH halogen-free fixed power cable



DIN VDE 0276-604 N2XH

0.6/1 kV XLPE + HM4 LSZH

EN 50575 CPR Cca / B2ca

Application

N2XH Low-Smoke Zero-Halogen Power Cable (0.6/1 kV) manufactured per DIN VDE 0276-604, HD 604 S1 and IEC 60502-1 with Class 1/2 bare copper conductors (1×16 to 1×500 mm² & 3×1.5 to 5×240 mm²), 90 °C 2X11 XLPE insulation, halogen-free.

Typical uses: Hyperscale Data Centres & Server Halls, Hospitals, Airports & High-Rise Commercial Buildings, Underground Metro Stations & Road Tunnels, Pharmaceutical, Food & Cleanroom Manufacturing, Power Stations & Switchgear Rising Mains

Construction



Cross-section, not to scale

- 1 Bare annealed copper conductor (RE / RM / SM)
- 2 2X11 Cross-Linked Polyethylene (XLPE) insulation
- 3 Halogen-free flame-retardant inner filling compound
- 4 HM4 Low-Smoke Zero-Halogen (LSZH) outer sheath

Technical data

Typical values

Rated voltage (Uo/U)	0.6 / 1 kV AC (max. 1.2 kV AC / 1.8 kV DC)
Max. DC resistance @ 20 °C	1.15 Ω/km (16) · 0.387 Ω/km (50) · 0.193 Ω/km (95) · 0.0754 Ω/km (240)
Continuous conductor temp.	+90 °C (vs +70 °C for PVC NYY)
Ambient temperature range	-30 °C to +70 °C (fixed) · -5 °C to +50 °C (laying)
Max. pulling tension	50 N / mm ² of total copper conductor cross-section
Bunched flame propagation	IEC 60332-3-24 Cat C & EN 50575 CPR Cca-s1,d1,a1 (B2ca opt)
Smoke density	IEC 61034-2: light transmittance ≥ 60 %

AC routine test voltage	4,000 V AC rms for 5 minutes
Volume resistivity @ 90 °C	≥ 10 ¹² Ω·cm (2X11 XLPE dielectric)
Short-circuit temperature	+250 °C (max. 5 s)
Min. bend radius	15 × OD (single-core N2XH-O) · 12 × OD (multi-core N2XH-J)
Impact & abrasion	High-density HM4 polyolefin sheath resists tray pulling damage
Corrosive gas & acidity	IEC 60754-1/2: pH ≥ 4.3, conductivity ≤ 2.5 µS/mm
Standards	DIN VDE 0276-604 · HD 604 S1 · IEC 60502-1

Sizes

6 standard constructions

Tick the sizes you need and send this page to info@tebaoflex.com or WhatsApp +86 185 9591 3361.

VDE designation	Cores & stranding	Outer Ø ≈ mm	Weight ≈ kg/km	Max. DC R Ω/km	Air 30°C A
Single-Core N2XH-O 2 sizes					
☐ N2XH-O 1×95 RM	1 × 95 mm ² Class 2	17.5	980	0.1930	298
☐ N2XH-O 1×240 RM	1 × 240 mm ² Class 2	25.8	2,380	0.0754	538
Five-Core N2XH-J (3P+N+PE) 4 sizes					
☐ N2XH-J 5×2.5 RE	5G2.5 mm ² Class 1	12.2	225	7.4100	29
☐ N2XH-J 5×16 RM	5G16 mm ² Class 2	21.4	985	1.1500	94
☐ N2XH-J 5×50 RM	5G50 mm ² Class 2	33.5	2,680	0.3870	183
☐ N2XH-J 5×95 RM	5G95 mm ² Class 2	44.2	4,950	0.1930	282

– For installations requiring functional circuit integrity (FE180 / E30–E90) during a fire, specify NHXH E30/E90.

Standards and approvals

- ✓ DIN VDE 0276-604 & HD 604 S1
- ✓ EN 50575 CPR Cca / B2ca
- ✓ IEC 60502-1 & RoHS 2

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/n2xh-lszh-power-cable



Typical values for this cable type, based on DIN VDE 0276-604 / HD 604 S1 / IEC 60502-1. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.