Power & distribution cables

# NA2XS(F)2Y 6/10kV–18/30kV VDE 0276-620 / HD 620




VDE 0276-620 · 6/10–18/30 kV · -25°C to +90°C · Min. bend 15 × OD

VDE 0276-620 | 6/10–18/30 kV

## Application

NA2XS(F)2Y 6/10kV–18/30kV VDE 0276-620 / HD 620 manufactured to VDE 0276-620, rated 6/10 (12) kV / 8.7/15 kV / 12/20 (24) kV / 18/30 (36) kV and -25°C to +90°C with a 15 × OD minimum bending radius for renewable energy 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 | 1×240/25 mm² RM Stranded Al |
| 2 | Insulation & Core Identification | VDE 0276-620 2XI1 XLPE dielectric (240 mm² Stranded Aluminium) |
| 3 | Screen / Bedding / Armour Layer | Semi-conductive longitudinal water-blocking swellable tape (F) + Helical copper wire screen (25 mm²) + counter-helix copper tape + Non-woven longitudinal water-swellable wrapping tape |
| 4 | Outer Protective Sheath | Black DMP2 HDPE / MDPE outer sheath (OD 35.8 mm) |

## Technical data

Typical values

| | | | |
|---|---|---|---|
| Nominal / reference voltage | 6/10 (12) kV / 8.7/15 kV / 12/20 (24) kV / 18/30 (36) kV | Conductor & core insulation | 1×240/25 mm² RM Stranded Al · VDE 0276-620 2XI1 XLPE dielectric (240 mm² Stranded Aluminium) |
| 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 | VDE 0276-620 |
| Minimum bending radius | 15 × OD | Screening / armour architecture | Semi-conductive longitudinal water-blocking swellable tape (F) + Helical copper wire screen (25 mm²) + counter-helix copper tape + Non-woven longitudinal water-swellable wrapping tape |
| Outer sheath material & colour | Black DMP2 HDPE / MDPE outer sheath (OD 35.8 mm) | Standards | VDE 0276-620 |

## 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| **NA2XS(F)2Y 6/10kV–18/30kV VDE 0276-620 / HD 620** 3 sizes | | | | | | | | | | |
| ☐ NA2XS(F)2Y 6/10kV–18/30kV VDE 0276-620 / HD 620 (1×240/25 mm²) | 1×240/25 mm² | Class 2 Compacted Stranded Aluminium | VDE 0276-620 2XI1 XLPE dielectric | Outdoor PE | 35.8 | 537 | 0.12 | 803.7 | 2,115 | 336 A |
| ☐ NA2XS(F)2Y 6/10kV–18/30kV VDE 0276-620 / HD 620 (1×300/25 mm²) | 1×300/25 mm² | Class 2 Compacted Stranded Aluminium | VDE 0276-620 2XI1 XLPE dielectric | Outdoor PE | 42.2 | 633 | 0.09 | 1,119.1 | 2,945 | 385 A |
| ☐ NA2XS(F)2Y 6/10kV–18/30kV VDE 0276-620 / HD 620 (1×400/25 mm²) | 1×400/25 mm² | Class 2 Compacted Stranded Aluminium | VDE 0276-620 2XI1 XLPE dielectric | Outdoor PE | 49.4 | 741 | 0.07 | 1,530.3 | 4,027 | 445 A |

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

## Standards and approvals

- ✓ VDE 0276-620 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/na2xs-f-2y-6-10kv-18-30kv-vde-0276-620-hd-620**

Typical values for this cable type, based on Reference specification per VDE 0276-620 (NA2XS(F)2Y 6/10kV–18/30kV VDE 0276-620 / HD 620). Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.