

Designation code for power cables

according to DIN VDE 0271/0276

Construction reference



Identifications of designation

- N** DIN VDE standard
- (N)** similar to DIN VDE standard

Conductor material

- A** aluminium conductor
- copper conductor

Insulating materials

- Y** PVC
- 2X** cross-linked PE (XLPE)
- impregnated paper

Concentric conductor (screen)

- C** concentric conductor of copper
- CW** concentric conductor of copper in waveconal formation
- CE** concentric conductor of copper over each individual core
- S** screen of copper wires
- SE** screen of copper wires over each individual core
- H** conductive layers
- (F)** longitudinally water-proof screen

Armouring

- B** steel tape armouring
- F** armour of galvanized flat steel wires
- G** counter helix of galvanized steel tape
- R** armour of galvanized round steel wires

Sheath Material

- | | |
|--|--------------|
| A oversheath made of fibrous material | Y PVC |
| K lead sheath | 2Y PE |
| KL aluminium sheath | |

Protective Conductor

- I** with protective conductor
- O** without protective conductor

Number of cores

Conductor cross section in mm²

Conductor type

- | | |
|---|--------------------------------------|
| r... circular conductor | ..m stranded conductor |
| s... sector conductor | ..h hollow circular conductor |
| o... oval conductor | /V compact conductor |
| ..e... circular, solid conductor | |

Rating Voltage

- 0,6/1 kV
- 3,6/6 kV
- 6,0/10 kV
- 12/20 kV
- 18/30 kV

Examples

NA2XS2Y 1x35 RM/16 6/10 kV

Single core XLPE-insulated cable with PE-sheath according to standard, circular, stranded aluminium conductor with nominal cross-section 35 mm², covered with copper-screen 16 mm² and rating voltage (U₀/U) 6/10 kV

NIY-J 12x1,5 RE 0,6/1 kV

Cable according to standard, PVC-insulated, sheath PVC, with green-yellow marked core, 12 cores with nominal cross-section 1,5 mm², circular conductor, solid, rating voltage 0,6/1 kV

