

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
K lead sheath
KL aluminium sheath

Y PVC
2Y PE

Protective Conductor

I with protective conductor
O without protective conductor

Number of cores

Conductor cross section in mm²

Conductor type

r ... circular conductor
s ... sector conductor
o ... oval conductor
e ... circular, solid conductor

..m stranded conductor
..h hollow circular conductor
/V compact conductor

Rating Voltage

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

Examples

NA2XS2Y 1x 35 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

NIYY-J 12x 1,5 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