

Control Cables

□ □ □ □ □ □ □ x □
 1 2 3 4 5 6 7 8

1. Basic type

N VDE standard
 (N) or X as per VDE

2. Insulation material

Y Thermoplastic resins
 X Crosslinked thermoplastic resins
 G Elastomers
 HX Halogen-free materials

3. Cable designation

A Cored cable
 D solid wire
 AF Fine wire cored cable
 F Socket core
 L Fluorescent tube cable
 LH Connecting cable light mechanical load
 MH Connecting cable medium mechanical load
 SH Connecting cable heavy mechanical load
 SSH Connecting cable special load
 SL Control cable/welding cable
 S Control cable
 LS Light control cable
 FL Flat cable
 Si Silicone cable
 Z Twin cable
 GL Glass filament
 Li Stranded core to VDE 0812
 LiF Stranded core to VDE 0812, superfine wire

4. Special features

T Support wire
 Õ Enhanced oil resistance
 U Flame-retardant
 w Heat resistant, weather resistant
 FE Insulation retained for a limited time
 C Screen braiding
 D Screening as envelope with copper wire
 S Steel wire braid as mechanical protection

5. Sheaths

as point 2. Insulating material
 P/PUR polyurethane

6. Protective conductor

-O without protective conductor
 -J with protective conductor

7. Number of cores

... No. of cores

8. Conductor cross-section

in mm²

Harmonised Cables

□ □ □ □ □ - □ □ □ □
 1 2 3 4 5 6 7 8 9

1. Basic type

H harmonised type
 A national type

2. Rated voltage

01 100/100Volt
 03 300/300Volt
 05 300/500Volt
 07 450/750Volt

3. Insulation material

V PVC
 V2 PVC +90 °C
 V3 PVC cold-flexible
 B Ethylenpropylen rubber
 E PE Polyethylene
 X XPE, crosslinked PE
 R Rubber
 S Silicone rubber

4. Outer/inner sheath material

V PVC
 V2 PVC +90 °C
 V3 PVC cold-flexible
 V5 PVC with enhanced oil resistance
 R Rubber
 N Chloroprene rubber
 Q Polyurethane
 J Glass fibre braid
 T Textile braid

5. Special features

C4 Copper screen braiding
 H Flat cable, separable
 H2 Flat cable, not separable
 H6 Flat cable, not separable, for lifts
 H8 Helical/spiral cable

6. Conductor type

U Single wire
 R Multi-wire
 K Fine wire (static)
 F Fine wire (flexible)
 H Superfine wire
 Y Tinsel wire
 D Fine wire core for welding cable
 E Superfine core for welding cable

7. Number of cores

... No. of cores

8. Protective conductor

X without protective conductor
 G with protective conductor

9. Conductor cross section

in mm²

Example: NSHTÖU 24G 1.5

ÖLFLEX® CRANE NSHTÖU – VDE approved, 24-core with protective conductor, cross-section 1.5mm²

Example: H05 VV-F 3G 1.5

medium PVC sheathed cable 3-core with protective conductor, cross-section 1.5 mm²

Telephone Cables and Leads

□ □ - □ □ □ □ □ x □ x □ □ □ □
 1 2 3 4 5 6 7 8 9 10

1. Basic type

- A Outside cable
- G Mine cable
- J Installation cable
- Li Rubber sheathed cable
- S Jumper cable

2. Additional information

- B Lightning protection make-up
- J Induction protection
- E Electronics

3. Insulation material

- Y PVC
- 2Y Polyethylene
- O2Y Cellular-PE
- 5Y PTFE
- 6Y FEP
- 7Y ETFE
- P Paper

4. Make-up features

- F Petroleum jelly filling
- L Aluminium sheath
- LD Corrugated Al sheath
- (L) Aluminium strip
- (ST) Metal foil screen
- (K) Copper strip screen
- (C) Copper braid screen
- (Z) Steel wire braid
- W Corrugated steel sheath
- M Lead sheath
- Mz Special lead sheath
- b Armouring
- c Jute sheath + ground
- E Ground layer + strip

5. Sheath material

(see 3. insulation)

6. Number of elements

... number of stranding elements

7. Stranding elements

- 1 Single core
- 2 Pair

8. Conductor diameter

... in mm

9. Stranding element

- F star-quad (railway)
- St star-quad (phantom)
- StI star-quad (trunk cable)
- StII star-quad (local cable)
- TF star-quad for TF
- S signal cable (railway)
- PIMF screened pair

10. Type of stranding

- Lg twisted in layers
- Bd twisted in bundles

Fibre optic cables complying with VDE 0888

□ □ - □ □ □ □ □ x □ x □ □ □ □
 1 2 3 4 5 6 7 8 9 10 11

1. Basic type

- A Outdoor cable
- AT Outdoor cable, divisible
- I Indoor cable

2. Fibres

- D Bundled cores, filled
- V Full core
- H Loose tube, unfilled
- W Loose tube, filled
- B Bundled cores, unfilled

3. Other structural elements

- F Petroleum jelly filling
- Q Swelling tape
- S Metal element in cable core

4. Sheath

- 2Y PE sheath
- (L)2Y Layered sheath
- (D)2Y PE sheath with plastic barrier layer
- (ZN)2Y PE sheath with non-metallic strain relief elements
- (L)(ZN)2Y Layered sheath with non-metallic strain relief elements
- (D)(ZN)2Y PE sheath with plastic barrier layer and non-metallic strain relief elements
- B Armouring
- BY Armouring with PVC casing
- B2Y Armouring with PE casing

5. Number of fibres

6. Fibre type

- G Gradient fibre glass/glass
- E Monomode fibre glass/glass
- S Stepped fibre glass/glass
- K Stepped fibre glass/plastic

7. Fibre core diameter

8. Fibre sheath diameter

9. Attenuation coefficient in dB/km

10. Optical window

- A 650 nm
- B 850 nm
- F 1300 nm
- H 1550 nm

11. Bandwidth in MHz and dispersion in ps/nm/km

Example: **A2Y(L)2Y 6 x 2 x 0.8 Bd**
 Telephone cable for local network with PE insulation and composite layer sheath