

CODES

CODES FOR CONTROL CABLES



1 Identification	
N	VDE standard
(N)	in resembl. to VDE
X	in resembl. to VDE
2 Insulation	
Y	PVC
X	cross-linked, thermoplastic synthetic materials
G	elastomers
HX	cross-linked, halogen-free materials
H	halogen-free materials
2Y	PE
3 Type of cable	
A	insulation cable
D	solid cable
AF	flexible stranded cable
F	flexible cable for fittings
L	fluorescent tube cable
LH	direct line, minor mechanical stress
MH	MH direct line, medium mechanical stress
SH	direct line, heavy mechanical stress
SSH	direct line, specific stress
SL	control cable/ welding cable
S	control cable
LS	control cable with minor mechanical stress
FL	flat flexible cable
Si	silicone cable

Z	flat twin flexible cord
GL	glass fibre yarn
Li	bunched conductor acc. to VDE 0812
LiF	bunched conductor acc. to VDE 0812, extra fine stranded
4 Particularities	
T	support wire
Ö	enhanced oil-resistance
U	flame-resistant
w	heat resistant
FE	insulation integrity
C	copper wire braid
D	copper wire spinning (weir)
S	steel wire braid
5 Sheath	
Y	PVC
X	crosslinked, thermoplastic synthetic materials
G	elastomers
H	halogen-free materials
PUR	polyurethane
6 Core identification	
O	without protective conductor
J	with protective conductor
Z	cores with number-printing
B	cores with colour-coding

7 Number of cores	
8 Nominal conductor cross-section (mm²)	

CODES FOR TELECOMMUNICATION LINES



1 Basic Type	
A	outdoor cable
G	mining cable
J	installation cable
S	switchboard cable
T	distribution cable
2 Additional Information	
B	lightning protection
J	induction protect.
E	electronics
LI	stranded wire
3 Insulation	
Y	PVC
2Y	PE
02Y	Foam-PE
02YS	Foam-Skin PE
5Y	PTFE
6Y	FEP
7Y	ETFE
9Y	PP
09YS	Foam-Skin PP
4 Construction over conductor stranding	
F	petroleum jelly filling
L	aluminium Sheath
C	copper wire braid
D	copper wire spinning (weir)
S	steel wire braid
DS	steel wire spinning (weir)
(K)	copper tape screen
(L)	aluminium tape
(St)	metal foil screen (Al/PE)
(mS)	magnetic screen
(Z)	strain bearing element
5 Sheath	
Y	PVC
Y-FR	PVC flame retardent IEC 332.3
Yv	PVC reinforced
Yw	PVC heat resistant
2Y	PE
H	halogen-free flame retardant

6 Number of stranding elements	
7 Stranding element	
1	Single conductor
2	Pair
3	Triple
4	Quad
5	Five
8 Conductor diameter or Conductor cross-section	
9 Stranding element	
St 0	star-quad (in general)
St I	star-quad (tele- comm. cable)
St III	star-quad (local cable)
St IV	star-quad for trans mission up to 120 kHz
St V	star-quad for trans mission up to 550 kHz
St VI	star-quad for trans mission up to 17 MHz
TF	carrier frequency
P	paired
Kx	coaxial pair
DM	Dieselhorst-Martin-quad
PimF	pair in metal foil
VimF	quad in metal foil
10 Type of stranding	
Lg	layer-stranding
Bd	unit stranding
Bd Si	unit stranding, simatic colour code

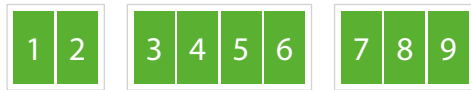
EXAMPLES FOR CODE DESIGNATION
 200 paired outdoor telephone cable for local grids, foam-skin PE-sheathed, composite layer sheath from coated aluminium tape and PE outer sheath, star-quad unit stranding, conductor diameter 0.4 mm

A-02YS(L)2Y 200x2x0.4 STIII Bd



CODES

CODE FOR HARMONISED CABLES ACC. TO DIN 57 292/ VDE 0292



1 Identification according designation

- H** harmonised designation
- A** national type

2 Nominal voltage (U_0 / U)

- 03** 300/300V
- 05** 300/500V
- 07** 450/750V

3 Insulation

- V** PVC
- R** natural and/ or synthetic rubber
- S** silicone rubber

4 Sheath

- V** PVC
- R** natural and/ or synthetic rubber
- N** chloroprene rubber
- J** glass fibre braid
- T** textile braid

5 Particularities in construction

- without
- H** flat, divisible cable
- H2** flat, non-divisible cable

6 Conductor

- U** solid
- R** multi-wired
- K** fine-wired for fixed installation
- F** fine-wired for flexible installation
- H** extra fine-wired
- Y** tinsel wire

7 Number of cores

8 Protective conductor

- X** without protective conductor
- G** with protective conductor

9 Nominal conductor cross-section in mm²

EXAMPLES FOR CODE DESIGNATION

PVC-sheathed wire 2.5 mm ² , green-yellow	H07V-U 2.5 gnye
Light tough-rubber sheathed wires 3 cores, 1.5 mm ² , with protective conductor, green-yellow	H05RR-F 3G1.5
2 cores, 1.5 mm ² , without protective conductor	H05RR-F 2G1.5
PCV-sheathed wire round, 4 cores, 2.5 mm ²	H05VV-F 4G2.5

CODE FOR POWER CABLES ACC. TO VDE 0276



1 Identification

- N** VDE-standard
- X** in resemblance to VDE

2 Type of conductor

- A** aluminium conductor
- copper conductor

3 Insulation

- Y** PVC
- 2X** cross-linked polyethylene (XLPE, german: VPE)

4 Concentric conductor, screen

- C** concentric copper conductor (helical)
- CW** concentric copper conductor (wave-form)

5 Sheath

- Y** PVC
- 2Y** PE

6 Protective conductor

- O** without protective conductor
- J** with protective conductor

7 Number of cores

8 Nominal conductor cross-section in mm²

9 Conductor

- R** circular conductor
- S** sector-shaped conductor
- E** solid-wired
- M** multi-wired conductor cross section (mm²)

10 Nominal voltage

U_0 / U

EXAMPLES FOR CODE DESIGNATION

Power cable acc. to standard, insulation and sheath from PVC, with green-yellow core, 3 cores, nominal cross-section 16 mm², solid circular conductor, nominal voltage 0.6/1 kV

NY Y-J 3 x 16 RE 0.6/1 kV

Power cables acc. to standard, aluminium conductor, insulation and sheath from PVC, with protective conductor, 3 cores, with wave-form concentric conductor, nominal cross-section 25 mm², solid sector-shaped conductor, nominal voltage 0.6/ 1kV

NACWY-J 3 x 25 SE 0.6/1kV

