Code-designation for harmonized cables and flexible cords to DIN VDE 0292 and HD 361 S2/S3

This system of code-designation is prepared by CENELEC for harmonized cables as flexible cords for power installations and published in Harmonization Document HD 361 S2 and 361 S3.

Kind of Standards

Code-designation	Classified to Standards
H	cables and wires to harmonized documents
A	authorised national standards

Conductor material

without designation	Copper
– A	Aluminium
– Z	Conductor of special material and/or special shape

Type and shape of conductor

– D	fine wire stranded conductor for welding cables
– E	extra fine wire stranded conductor for welding cables
– F	fine wire stranded conductor for flexible cables according to DIN VDE 0295, class 5
– H	extra fine wire stranded conductor for flexible cables according to DIN VDE 0295, class 6
– K	fine wire stranded conductor for fixed installation (if not specified, equivalent to DIN VDE 0295, classe 5)
– M	Milliken conductor
– R	conductor of multistranded wires
– S	sector-shaped conductor of multistranded wires
– U	round conductor of single wire
– W	sector-shaped conductor of single wire
– Y	tinsel conductor
– Z	conductor of special material and/or special shape

Core numbers and cross-section of conductor

Number	number of cores n
X	Multiplication sign without green-yellow core
G	Multiplication sign for green-yellow core
Y	tinsel conductor, whereby the cross-section is not specified

Insulation and sheath materials

B	Ethylene-propylene-rubber for Temp. of +90°C
B2	Ethylene-propylene rubber, hardend
B3	Butyl rubber (isobutylene-isoprene rubber)
E	Polyethelene
E2	Polyethelene, high density
E4	Polytetrafluorethylene
E5	Perfluor (Ethylene-propylene – copolymers)
E6	Ethylene-tetrafluorethylene – copolymers
E7	Polypropylene

Insulation and sheath materials

Code-designation	Materials
G	Ethylene-vinylacetate – copolymers
J	braiding of glass fibre
J2	wrapping of glass fibre
M	mineral insulation
N	chloroprene-rubber (or equivalent material)
N2	special compound of chloroprene-rubber
N4	Sulfonated chlor or chlorinated polyethelene
N5	Nitril-rubber
N6	Florinated rubber
N7	PVC-Nitril-rubber compound
N8	Special-polychloroprene-rubber, water resistant
P	Cables with impregnated paper insulation for multicore belted cable
Q	Polyurethane
Q2	Polyethyleneterephthalate
Q3	Polystyrole
Q4	Polyamide
Q5	Polyimide
Q6	Polyvinylidene fluoride
R	Ethylene-propylene rubber or equivalent synthetic elastomer for +60°C temperature of +60°C, for permanent temperature of +60°C
S	Silicon-rubber
T	textile braiding over twisted cores, impregnated/unimpregnated
T2	textile braiding with flamme retardant impregnated composition
T3	layer of textile as core wrapping or tape
T4	layer of textile as core wrapping or tape with flame retardant impregnated composition
T5	corrosion protection
T6	textile braiding over individual core or multicore cable, impregnated/unimpregnated
V	PVC soft
V2	PVC soft, resistant to increased temperature, +90°C
V3	PVC soft, for low temperatures
V4	PVC soft, cross-linked
V5	PVC soft, oil resistant
X	cross-linked polyethylene
Z	cross-linked compound to a basis of polyolefine, for low corrosiv gas and low smoke emission in case of fire
Z1	Thermoplastic compound to a basis of polyolefine, for low corrosiv gas and low smoke emission in case of fire

Continuation ▶

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Metal sheath, concentric conductor and screens

Code-designation	Metal sheath
A2	Aluminium sheath, pressed or welded, smooth
A3	Aluminium sheath, pressed or welded, corrugated
A4	Aluminium sheath over individual core
A5	Aluminium sheath of Band
C2	Copper sheath
C3	Copper sheath, corrugated
F	Steel sheath
F3	Steel sheath, corrugated
K	Zinc sheath
L	Alloyed lead sheath for general use
L2	non-alloyed lead sheath, normal pure lead
L4	alloyed lead sheath over individual core
L5	non-alloyed lead sheath over individual core
L6	alloyed lead sheath, but other composition than above

Concentric conductors

A	concentric aluminium conductor
A6	concentric aluminium conductor, meander-shaped
C	concentric copper-conductor
C6	concentric copper-conductor, meander-shaped
C9	divided concentric copper conductor

Screens

A7	Aluminium screen
A8	Aluminium screen of individual core
C4	Copper screen as braid over the stranded cores
C5	Copper screen braiding over individual core
C7	Copper screen of tape, round or profile-wires over twisted cores
C8	Copper screen as C7, over individual core
D	screen of one or more thin steel tapes, laying direkt over twisted cores, in contact with a stranded plain conductor

Armouring

Code-designation	Armouring**
Z2	Armouring of round steel wires*, galvanized/ungalvanized
Z3	Armouring of flat steel wires*, galvanized/ungalvanized
Z4	Armouring of steel tape, galvanized/ungalvanized
Z5	Braiding of steel wires, galvanized, ungalvanized
Z6	Supporting braid of steel wires
Z7	Armouring of sectional steel wires
Y2	Armouring of round aluminium wires*
Y3	Armouring of flat aluminium wires*
Y5	Armouring of special materials
Y6	Armouring of steel wires and/or steel tape and copper wires

* counter helix, if specified

** see remarks DIN VDE 0292

Special constructive supporting elements

D2	Supporting elements of textile or steel wires over cable core
D3	Textil supporting elements of one or more elements, stranded in the core of circular cable or placed in a flat cable
D4	self-supporting cables and wires, where the conductor permits the strain-relieving function
D5	central core element (not as supporting element), used for lift cable
D7	as D3, the supporting element however is connected externally
D8	as D7, however a section horizontal to the axis of the cable forming the number “8”

Special versions

without designation	round cable construction
H	flat type as seperable cables with or without sheath
H2	flat type of cables unseperable
H3	building cable, flat webbed
H4	multicore flat cable with one plain conductor
H5	two or more single core stranded, non-sheathed cables
H6	flat cables according to HD 359 or EN 50214 with 3 or more cores
H7	Cable with two-sheathed extruded insulation
H8	Coiled conductor