HARMONIZED IDENTIFICATION

The harmonized identifications for cables and wires come to an agreement with the CENELEC-structure (HAR-agreement) are determined by the certification institute. These identifications conform the harmonized standards. The harmonized identification must be visible on the core or the sheath in form of an imprint or embossing, or contained with a three-coloured black-red-yellow protected identification thread of different colour lengths (dimension in cm).

Harmonized identification

Kind of imprint or embossing	Colour of identification thread black red yellow (dimension in cm)			Country	Certification institute	
					Name	Designation
CEBEC <HAR>	1	3	1	Belgium	Comite´ Electrotechnique Belge	CEBEC
<VDE> <HAR>	3	1	1	Germany	Verband Deutscher Elektrotechniker e.V. VDE Prüf- und Zertifizierungsinstitut	VDE
USE <HAR>	3	3	1	France	Union Technique de l'Electricité	UTE
IEMMEQU <HAR>	1	3	5	Italy	Instituto Italiano de Marchio Qualitá	IMQ
BASEC <HAR>	1	1	3	Great Britain and North Ireland	British Approvals Service for Cables	BASEC
KEMA-KEUR <HAR>	1	3	3	Netherlands	N.V. tot Keuring van Elektrotechnische Materialien	KEMA
SEMKO <HAR>	1	1	5	Sweden	Svenska Elektriska Materielkontrollanstalten	SEMKO
<ÖVE> <HAR>	3	1	5	Austria	Österreichischer Verband für Elektrotechnik	ÖVE
<DEMKO> <HAR>	3	1	3	Denmark	Danmarks Elektriske Materialkontroll	DEMKO
<NSAI> <HAR> <IIRS> <HAR>	3	3	5	Ireland	National Standards Authority of Ireland old: Institute for Industrial Research and Standards	NSAI (IIRS)
NEMKO <HAR>	1	1	7	Norway	Norges Elektriske Materiellkontroll	NEMKO
<>UNE<> <HAR> ((<>UNE<>))	3	1	7	Spain	up to 31. 12. 1992: Asociación Electrotécnica y Electrónica Española	AEE
AENOR <HAR>	3	1	9		from 01.01.1993: Asociación Española de Normalización y Certificación	AENOR
ELOT <HAR>	3	3	7	Greece	Hellenic Organization for Standardization	ELOT
<IPQ> <HAR>	1	1	9	Portugal	Instituto Portugués da Qualidade	IPQ
SEV <HAR>	1	3	9	Switzerland	Schweizerischer Elektrotechnischer Verein	SEV
FIMKO	1	3	7	Finnland	FIMKO LTD	FIMKO
MEEI <HAR>	3	3	9	Hungarian	Magyar Elektrotechnikai Ellenörzö Intézet	MEEI

DESIGNATION CODE FOR HARMONIZED CABLES

Construction reference

H	05	V		V5		–	F		25	G	0,75

Identifications of destignation
A authorised national standards
H harmonized standards

Nominal voltage U
01 100 V
03 300/300 V
05 300/500 V
07 450/750 V

Insulation material
B (EPR) Ethylene-propylene-rubber
G (EVA) Ethylene-Vinylacetat-Copolymer
N2 (CR) Chloroprene rubber for welding cables
R (EPR) Ethylene propylene rubber
S (SiR) Silicone rubber
V (PVC) Polyvinyl chloride
V2 (PVC) Polyvinyl chloride heat-resistant
V3 (PVC) Polyvinyl chloride low-temperature
V4 (PVC) Polyvinyl chloride cross-linked
Z (PE) Polyethylene cross-linked

Structural elements
C4 Cooper-Screen braiding over laid-up cores
Q4 (PA) Additional polyimide core jacket
T Additional textile braiding over laid-up cores
T6 Additional textile braiding over individual cores

Sheath/jacket material
B (EPR) Ethylene-propylene-rubber
J Glass fibre braid
N (CR) Chloroprene rubber
N2 (CR) Chloroprene rubber for welding cables
N4 (CR) Chloroprene rubber heat-resistant
Q (PUR) Polyurethane
R (NR a./o. SR) Natural- a./o. synthetic rubber
T Textile braid
T2 Textile braid with flame retardant compound
V (PVC) Polyvinyl chloride
V2 (PVC) Polyvinyl chloride heat-resistant
V3 (PVC) Polyvinyl chloride low-temperature
V4 (PVC) Polyvinyl chloride cross-linked
V5 (PVC) Polyvinyl chloride oil resistant

Special structural features
D3 Stress-relieving elements (support wire)
D5 Centre core (no supporting element)
FM Telecommunications cores integrated in power cables
H Flat, separable cable (twin cable)
H2 Flat, non-separable cable (two-core sheathed cable)
H6 Flat, non-separable cable (multi- and multiple sheathed cable)
H7 Two-layer insulating jacket
H8 Spiral cables

Conductor type
D Finely stranded, for welding cables
E (very) finely stranded, for welding cables
F Finely stranded, for cables for flexible installation
H (Very) finely stranded, for flexible cables
K Finely stranded, for cables for fixed installation
R Multiple-wire, round, class 2
U Single-wire, round, class 1
Y Tinsel wire, DIN 47104

Number of cores

Earth core
G With earth core
X Without earth core

Conductor nominal cross section in mm²

Examples:
H07V-U 2,5 black
Harmonized PVC-insulated single-core sheathed cable, 2,5 mm² single-core, nominal voltage 750 V

H07RN-F 3G 1,5
Harmonized rubber-sheathed-cable for medium tensile loads, three-core 1,5 mm², finely stranded, green-yellow earth core, nominal voltage 750 V

CODE-DESIGNATION FOR HARMONIZED CABLES AND FLEXIBLE CORDS

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 polyole-fine, for low corrosiv gas and low smoke emission in case of fire

CODE-DESIGNATION FOR HARMONIZED CABLES AND FLEXIBLE CORDS

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

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

COMPARISON OF HARMONIZED CABLES WITH IEC AND DIN VDE

PVC-insulated powercables according to DIN VDE 0285-525 in comparison with IEC

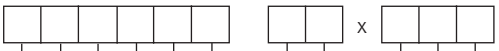
Designation	according to VDE	short designation new	short designation old VDE 0250	nominal cross-section (mm²)	nominal voltage U_0/U (V)	comparative design to IEC
PVC-wiring cables single wire fine wires	0285-525-2-31	 H05V-U H05V-K	 NYFA, NYA NYFAF, NYAF	 0,5 to 1	300/500	 227 IEC 05 227 IEC 06
PVC-insulated cables single wire multi-stranded wires fine wires	0285-525-2-31	 H07V-U H07V-R H07V-K	 NYA NYA NYAF	 1,5 to 10 1,5 to 400 1,5 to 240	450/750	 227 IEC 01 227 IEC 01 227 IEC 02
PVC-sheated cables 03VV round flat	0285-525-2-11	 H03VV-F H03VVH2-F	 NYLHY round NYLHY flat	 0,5+0,75 0,5+0,75	300/300	 227 IEC 43 227 IEC 43
PVC-sheated cables 05VV round flat	0285-525-2-11	 H05VV-F H05VVH2-F	 NYMHY round NYMHY flat	 0,75 to 2,5 0,75	300/500	 227 IEC 53 227 IEC 53
PVC-control cable	0285-525-2-51	H05VV5-F H05VVC4V5-K	NYSLYÖ NYSLYCYÖ	0,5 to 2,5 0,5 to 2,5	300/500	227 IEC 75 227 IEC 74
PVC-Flat-cable 05VVH6 PVC-Flat-cable 07VVH6	0283-2	H05VVH6-F H07VVH6-F	NYFLY NYFLY	0,75 to 1 1,5 to 25	300/500 450/750	- -

Rubber-insulated power cables according to DIN VDE 0285-525 in comparison with IEC

Designation	according to VDE	short designation new	short designation old VDE 0250	nominal cross-section (mm²)	nominal voltage U_0/U (V)	comparative design to IEC
Heat-resistant rubberinsulated cable	0285-525-2-42	H07G-U H07G-K	N4GA N4GAF	1,5+2,5 0,5 to 95	450/750	- -
Heat-resistant siliconrubber cable	0285-525-2-41	H05SJ-K	N2GAFU	0,5 to 95	300/500	245 IEC 03
Rubber sheathed flexible cord 05RR	0285-525-2-21	H05RR-F	NLH, NMH	0,75 to 2,5	300/500	245 IEC 53
Rubber sheathed flexible cord 05RN	0285-525-2-21	H05RN-F	NYMHöu	0,75+1	300/500	245 IEC 57
Rubber sheathed flexible cord 07RN	0285-525-2-21	H07RN-F	NMHöu NSHöu	1 to 400	450/750	245 IEC 65 245 IEC 66

IEC-definition
IEC 227: Polyvinylchloride insulated flexible cables and cords with circular conductors and a rated voltage not exceeding 750 V
IEC 245: Rubber insulated flexible cables and cords with circular conductors and a rated voltage not exceeding 750 V

DESIGNATION CODE FOR POWER CABLES



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	ead 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 1x 35 RM/16 6/10 kV
Single core XLPE-insulated cable with PE-sheath according to standard, circular, stranded aluminium conductor with nominal crosssection 35 mm², covered with copper-screen 16 mm² and rating voltage (U_0 /U) 6/10 kV

NYY-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

DESIGNATION CODE FOR TELEPHONE CABLES, JUMPER WIRES AND STRANDED HOOK-UP WIRES

Construction reference

Basic cable type with additional information

A	outdoor cable	**IE**	installation cable for industrial electronic
AB	outdoor cable with lightning protection requirements	**IE-H**	installation cable for industrial electronic, halogen-free
AJ	outdoor cable with induction protection requirements	**S**	switchboard cable
G	mining cable	**T**	distribution cable
I	installation cable	**YV/Li...**	jumper wires/hook-up wires

Insulation

P	dry paper	**3Y**	Styroflex
Y	PVC (Polyvinylchloride)	**5Y**	PTFE
2Y	PE (Polyethylene)	**6Y**	FEP
02Y	foamed PE (cellular)	**7Y**	ETFE
02YS	foam-skin insulation		

Screening

C	screen of braided copper wires	**(ms)**	magnetic screen steel tape
D	copper screen, helically stranded	**(St)**	screen of plastic coated metallic foil
F	filling of cable core with petrol-jelly	**(Z)**	high tensile steel wire braiding
(K)	screen of copper tape with PE-inner sheath		
(L)	aluminium tape		

Sheath Material

L	smooth aluminium sheath	**M**	lead sheath
(L)2Y	copolymer coated aluminium moisture barrier sheath	**Mz**	lead alloy sheath
LD	corrugated aluminium sheath	**W**	corrugated steel sheath

Protective coating

Y	PVC sheath	**2Y**	PE sheath
Yv	reinforced protective sheath of PVC	**2Yv**	reinforced protective PE sheath
Yw	PVC sheath heat-resistant	**E**	compound with embeded plastic tape
Yu	PVC flame resistant (non-flammable)	**C**	protective covering of jute and compound

Number of stranding elements

.. x1x	single core	**.. x4x**	quad
.. x2x	pair (double cores)	**.. x5x**	five-core
.. x3x	triple		

Conductor diameter in mm

Type of stranding components

F	star quad with phantom circuit in railway cables	**St V**	star quad for transmission of f = 550 kHz
S	signal core in railway signal cable	**St VI**	star quad for transmission of f = 17 MHz
StO	star quad general	**DM**	Dieselhorst-Martin quad
St	star quad with phantom circuit for long distance	**TF**	carrier frequency star quad
St I	star quad without phantom circuit	**P**	twisted pair
St II	star quad like St III, but with increased capacitance unbalances	**PiMF**	pair in metal foil
St III	star quad in local (Subscriber) cable	**ViMF**	quad in metal foil
St IV	star quad for transmission of f = 120 kHz	**BdiMF**	unit in metal foil
		Kx	coaxial cable

Stranding layout

Lg	ayer stranding concentric
Bd	unit stranding

Armouring wire

A	layer of Al-wires for inductive protection	**2B 0,5**	2 layers steel tape, thickness 0,5 mm
b	armouring	**D**	layer of copper wires for inductive protection
B	armouring of steel band for inductive protection	**(T)**	strain bearing of steel wires for aerial cable
1B 0,3	1 layer steel tape, thickness 0,3 mm		

CODE-DESIGNATION-EXPLANATIONS FOR CABLES AND INSULATED WIRE

A-	Outdoor cable
A	approved national design
AB	Outdoor cable with lighting protection
AD	Outdoor cable with differential protection
AJ-	Outdoor cable with induction protection
ASLH	self-supporting communication cables for high voltage overhead lines
B	armouring
B	spinning of textile yarn
b	armouring
(1B...)	one layer of steel tape... thickness of the steel tape in mm
(2B...)	two layers of steel tape... thickness of the steel tape in mm
BD	unit-type stranding
BLK	bare copper-conductor without insulation
BZ	bronze conductor
C	screen of copper wire braiding
C	screen of copper wire spinning
C	outer protection of jute and viscous compound
Cu	copper wire
(-Cu)	total cross-section of copper screens (mm^2)
D	screen of copper wires
(D)	screen of helically applied copper wires
DM	Dieselhorst-Martin quad
Dreier	three cores in triple stranded
E	copper drain wire
E(e)	protective covering of viscous compound with embedded layer of plastic tape
e	single wire, solid
F	cable cores assembly with petrol-jelly
F	foil wrapping
F	flat cable
F	star quad for railway cable
F	star quad for phantom circuits
(F...)	flat wire armouring... thickness in mm
OF	jelly filled cable core, filling compound of hard substances
FR	flame retardant
f	flexible, fine wire stranding
ff	extra fine wire stranding
G	insulation or sheath material of rubber (NR) or (SBR)
G-	Mining cable
GJ	Mining cable with induction protection
GS	glass fibre whipping or braiding
2G	insulation or jacket of silicone rubber, (SIR)
3G	insulation or jacket of ethylene propylene rubber, (EPR)
4G	insulation or jacket of ethylene vinylacetate rubber (EVA)
5G	insulation or jacket of chloroprene rubber (CR)
6G	insulation or jacket of chlorosulphonated polyethylene (CSM), Hypalon
7G	insulation or jacket of Flouroelastomer (FKM)
8G	insulation or jacket of Nitrile rubber (NBR)
9G	PE-C rubber (CM)
53G	CM, chlorinated Polyethylene
H	insulation or jacket of halogen-free compound
H	Harmonized Documents
(H...)	maximal value of mutual capacitance (nF /km)
(HS)	semi-conducting tape of layer
HX	cross-linked, halogen-free polymer compound
...IMF	individual stranding element (pairs or single cores etc.) in metal foil and drain wire
IMF	several stranding elements in metalfoil and drain wire
-J	cable with green-yellow earth core
-JZ	cable with green-yellow earth core and cores with inprinted numbers
K	copper-tape
(K)	inner sheath and longitudinally folded copper tape
LA	tinsel conductor (flat copper wire stranded over the thread of synthetic fibres)
LD	corrugated aluminium sheath
Lg	in layers stranding
Li	stranded wires conductor
(L)Y	laminated sheath Al-tape and PVC-jacket
(L)2Y	laminated sheath Al-tape and PE-jacketl
2L	double enamel coating as insulation
M	plastic-sheath cable
M	lead sheath
Mz	alloyed lead sheath
(mS)	magnetic shield
N	VDE standard
(N)	in adapted to VDE standard
NC	non-corrosiv, smoke-gase
NF	natural colour
-O	cable without green-yellow earth core
-OZ	cable without green-yellow earth core and cores with imprinted numbers
ö	oil-resistant
02Y	Foam-PE, insulation (cellular PE)
Q	Steel wire braiding
(R...)	round wire, diameter in mm
RAGL-	Compensating cable for thermocoupling
RD-	Rhenomatic cable
RE	Computer cable
RG-	Coaxial cable according MIL specification
re	round, single wire
rm	round, multiwire
RS-	computer switchboard cable
S	silk whipping
S	signal cables for railways
(S...)	nominal value of mutual capacitance (nF /km)
-S	signal cable for German Railway
S-	Switchboard cable
SL	flexible sheathed cable
2S	two layers of silk whipping
St	star quad for phantom circuits
St I	star quad in telephone cables for lager distance
St III	star quad in local cables
(St)	static screen
Staku	copper clad steel wire
Staku-Li	copper clad steel stranded wires
...t	termite protection
T	supporting element for overhead cable
T-	fan out cable
TF	carrier frequency of pairs or quads triple
TiC	triple in copper wire braid
TiMF	triple in metal foil
U	braiding of textile fibres
VGD	gold-plated
VN	ickel-plated; VS silver-plated
VZK	galvanized; VZN tinned
W	corrugated steel sheath
W	high heat resistant
W	corrugated steel sheath
X	cross-linked polyvinylchlorid (X-PVC) or other materials
XPE	cross-linked polyethylene (X-PE)
2X	cross-linked polyethylene
7X	cross-linked Ethylentetrafluorethylen (X-ETFE)
10X	cross-linked Polyvinylidenfluorid (X-PVDF)
Y	PVC, polyvinylchloride
Yu	PVC, polyvinylchloride, non-flammable, flame-retardant
Yv	PVC, polyvinylchloride, with reinforced sheath
YV	Equipment wires with tinned conductor
Yw	PVC, polyvinylchlorid, heat resistant upto 90°C
2Y	Polyethylene (PE)
2Yv	Polyethylene, reinforced sheath
02Y	Cellular polyethylene
02YS	insulation of cellular polyethylene with outer PE-skin
2YHO	insulation of air-spaced polyethylene
3Y	insulation polystyrene (PS), Styroflex
4Y	insulation or jacket of polyamide (PA)
5Y	insulation or jacket of polytetrafluorethylene (PTFE), HELUFLON®
5YX	Perfluoralkoxy (PFA)
6Y	Perfluoroethylene-propylene (FEP), HELUFLON®
7Y	insulation or jacket of ethylentetrafluorethylen (ETFE)
8Y	insulation of polyimid (PI), Kapton®
9Y	polypropylen (PP)
10Y	PVDF, Polyvinylidene fluoride
11Y	polyurethan (PUR)
12Y	TPE-E, TPE
13Y	TPE-EE, TPE on base of Polyester-Ester
31Y	TPE-S, TPE on base of Polystyrol
41Y	TPE-A, TPE on base of Polyamide
51Y	PFA, Perfluor-Alkoxylalkane
71Y	ECTFE, Monochlortrifluorethylene
91Y	TPE-O, TPE on base of Polyester-Ester
-Z	core imprinted with numbers
Z	twin cable
(Z)	high-tensile braid of steel wires
(ZG)	high-tensile element of glass fibre yarn
(ZN)	high-tensile of non-metallic elements