IEC Standard

2XY  Cross linked polyethylene insulated (XLPE), polyvinylchloride sheathed (PVC)

2XB(Al)Y  Single – core, cross linked polyethylene insulated (XLPE), aluminium tape armoured, polyvinylchloride sheathed (PVC)

2XYBY  Multicore, cross linked polyethylene insulated (XLPE), steel tape armoured, polyvinylchloride sheathed (PVC)

2XR(Al)Y  Single – core, cross linked polyethylene insulated (XLPE), aluminium wire armoured, polyvinylchloride sheathed (PVC)

2XYRY  Multicore, cross linked polyethylene insulated (XLPE), galvanized steel wire armoured, polyvinylchloride sheathed (PVC)

2XKYB(Al)Y  Single – core, cross linked polyethylene insulated (XLPE), lead alloy sheathed, aluminium tape armoured, polyvinylchloride sheathed (PVC)

2XXYBY  Multicore, cross linked polyethylene insulated (XLPE), lead alloy sheathed, steel tape armoured, polyvinylchloride sheathed (PVC)

2XKYR(Al)Y  Single – core, cross linked polyethylene insulated (XLPE), lead alloy sheathed, aluminium wire armoured, polyvinylchloride sheathed (PVC)

2XKYRY  Multicore, cross linked polyethylene insulated (XLPE), lead alloy sheathed, galvanized steel wire armoured, polyvinylchloride sheathed (PVC)

2XCY  Cross linked polyethylene insulated (XLPE), concentric copper conductor, polyvinylchloride sheathed (PVC)

2XSY  Cross linked polyethylene insulated (XLPE), double copper tape screened, polyvinylchloride sheathed (PVC)

2XSYYBY  Cross linked polyethylene insulated (XLPE), double copper tape screened, steel tape armoured, polyvinylchloride sheathed (PVC)

2XSYYRY  Cross linked polyethylene insulated (XLPE), double copper tape screened, galvanized steel wire armoured, polyvinylchloride sheathed (PVC)

Li-2XY(Cub)CY  FRECO-EMC bare, flexible copper conductors, cross linked polyethylene insulated (XLPE), double copper tape + copper wire braid screened, polyvinylchloride sheathed (PVC)

Optional:

- Fire retardant acc. to IEC 60332-3 C
- Fire retardant acc. to IEC 60332-3 A
- Aluminium conductors “A”
- PVC insulation “Y”
- Copper braid screen “(C)”
- Steel wire braid armour “Q”
- Galvanized flat steel wire armour with counter helix “FG”
- Zero halogen sheath “H”
- Hydrocarbon resistant outer sheath
- Cold resistant outer sheath
- Termite repellent outer sheath
**VDE Standard (Germany)**

- **N2XY** Cross linked polyethylene insulated (XLPE), polyvinylchloride sheathed (PVC)
- **NYKY** Polyvinyl insulated (PVC), lead alloy sheathed, polyvinylchloride sheathed (PVC)
- **NA2X2Y** Aluminium conductors, cross linked polyethylene insulated (XLPE), polyethylene sheathed (PE)
- **N2X(L)2YY** Cross linked polyethylene insulated (XLPE), with transversal moisture barrier, polyethylene + polyvinylchloride double sheathed (PE+PVC)
  - Other constructions on request

**NF Standard (France)**

- **U-1000 R2V** Cross linked polyethylene insulated (XLPE), polyvinylchloride sheathed (PVC)
- **U-1000 RVFV** Cross linked polyethylene insulated (XLPE), steel tape armoured, polyvinylchloride sheathed (PVC)
- **U-1000 RGPFV** Cross linked polyethylene insulated (XLPE), lead alloy sheathed, steel tape armoured, polyvinylchloride sheathed (PVC)

**NEN Standard (Netherlands)**

- **YMvKmb** Cross linked polyethylene insulated (XLPE), polyvinylchloride sheathed (PVC), fire retardant
- **YMvKmb Flex** Class 5 flexible conductors, cross linked polyethylene insulated (XLPE), polyvinylchloride sheathed (PVC), fire retardant
- **VO/VG-YMvKasmb** Cross linked polyethylene insulated (XLPE), steel armoured, polyvinylchloride sheathed (PVC), fire retardant
- **VO/VG-YLKmb** Cross linked polyethylene insulated (XLPE), lead alloy sheathed, steel armoured, polyvinylchloride sheathed (PVC), fire retardant

**BS Standard (UK)**

- **XLPE/LC/PVC/SWA/PVC** Cross linked polyethylene insulated (XLPE), lead alloy sheathed, galvanized steel wire armoured, polyvinylchloride sheathed (PVC)
- **XLPE/PVC/SWA/PVC** Cross linked polyethylene insulated (XLPE), galvanized steel wire armoured, polyvinylchloride sheathed (PVC)

**HAR Standard (Europe)**

- **H07 V-U** Solid copper conductor, polyvinylchloride insulation (PVC)
- **H07 V-R** Stranded copper conductor, polyvinylchloride insulation (PVC)
- **H07 V-K** Flexible copper conductor, polyvinylchloride insulation (PVC)

**Grounding**

- Bare, stranded copper conductor
- Stranded copper conductor with lead sheath
Abbreviations for IEC and VDE Cable Construction Elements:

Core:
- N: According to VDE - Standard
- Li: Flexible copper conductor class 5
- A: Aluminium conductor
- 2X: Cross linked polyethylene insulation (XLPE)
- Y: Polyvinylchloride (PVC)

Screen:
- C: Concentric layer of copper wires with a counter-helix of copper – tape
- S: Double layer of copper tapes
- (C): Copper wire braid
- (Cub)C: Double layer of copper tapes + copper wire braid

Metallic barrier:
- K: Lead alloy sheath
- (L): Aluminium tape bonded to PE sheath (transversal moisture barrier)

Armour:
- R(AI): Round aluminium wires
- B(AI): Double aluminium tape
- R: Galvanized steel wires
- B: Double steel tape
- Q: Steel wire braid
- FG: Galvanized flat steel wires with counter helix of galvanized steel tape

Sheath:
- Y: Polyvinylchloride (PVC)
- 2Y: Polyethylene (PE)

Core colours acc. to HD 308 S2 & EN 50334

"G" and "X"