

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 compound with embedded plastic tape |
| Yw | PVC sheath heat-resistant | E | compound with embedded 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 |
| St0 | 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 | layer 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 | | |

