

# Designation code for telephone cables, jumper wires and stranded hook-up wires

Construction reference

## Basic cable type with additional information

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

## Insulation

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

## Screening

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

## Sheath Material

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

## Protective coating

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

## Number of stranding elements

<b>.. x1x</b>	single core	<b>.. x4x</b>	quad
<b>.. x2x</b>	pair (double cores)	<b>.. x5x</b>	five-core
<b>.. x3x</b>	triple		

## Conductor diameter in mm

## Type of stranding components

<b>F</b>	star quad with phantom circuit in railway cables	<b>St V</b>	star quad for transmission of $f = 550$ kHz
<b>S</b>	signal core in railway signal cable	<b>St VI</b>	star quad for transmission of $f = 17$ MHz
<b>St0</b>	star quad general	<b>DM</b>	Dieselhorst-Martin quad
<b>St</b>	star quad with phantom circuit for long distance	<b>TF</b>	carrier frequency star quad
<b>St I</b>	star quad without phantom circuit	<b>P</b>	twisted pair
<b>St II</b>	star quad like St III, but with increased capacitance unbalances	<b>PiMF</b>	pair in metal foil
<b>St III</b>	star quad in local (Subscriber) cable	<b>ViMF</b>	quad in metal foil
<b>St IV</b>	star quad for transmission of $f = 120$ kHz	<b>BdiMF</b>	unit in metal foil
		<b>Kx</b>	coaxial cable

## Stranding layout

<b>Lg</b>	layer stranding concentric
<b>Bd</b>	unit stranding

## Armouring wire

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