



# Telecommunication CABLES

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## OUTDOOR TELEPHONE CABLES DESIGNATION CODES ACCORDING TO VDE STANDARD

- **Product - Application**
  - A Outdoor Cable
- **Insulation Type**
  - 2Y Polyethylene
  - 02Y Foam Polyethylene
  - 02YS Foam-skin Polyethylene
- **Filling**
  - F Jelly Filling
- **Inner Jacket**
  - 2Y Polyethylene Inner Jacket
- **Screen**
  - (L) Aluminium Foil Tape
- **Armour**
  - b Galvanized Steel Tape
  - B Corrugated Steel Tape
- **Outer Jacket**
  - 2Y Polyethylene Outer Jacket
- **Aerial**
  - T Steel Messenger Wire
- **Stranding**
  - x2x Pair
  - x4x Star Quad
- **Stranding Annex**
  - P Twisted Pair
  - St III Star Quad, subscriber cable
- **Stranding Layout**
  - Lg Stranding in layers
  - Bd Unit stranding

## OUTDOOR TELEPHONE CABLES DESIGNATION CODES

- **Insulation Type**
  - P Polyethylene
  - KP Foam-skin Polyethylene
- **Twisting**
  - D Insulations twisted to star quads
- **3Filling**
  - F Jelly Filling
- **Inner Jacket**
  - P Polyethylene Inner Jacket
  - H Halogen-free Inner Jacket
- **Screen**
  - A Aluminium Foil Tape
- **Armour**
  - b Galvanized Steel Tape
  - B Corrugated Steel Tape
- **Outer Jacket**
  - P Polyethylene Outer Jacket
  - H Halogen-free Outer Jacket
- **Aerial**
  - A Steel Messenger Wire

## KPD-AP A-02YS(L)2Y



### TECHNICAL DATA

- Max. Operating Temperature: 70°C
- Min. Bending Radius: 10 x cable Ø
- Production Standards: EN 60794-3-12

### INTRODUCTION

These cables are used as underground cable ducts. These cables having 0.4 and 0.5 mm conductor diameter are used for distribution network and 0.6, 0.63, 0.65, 0.8 and 0.9 mm conductor diameter are used for long distance network.

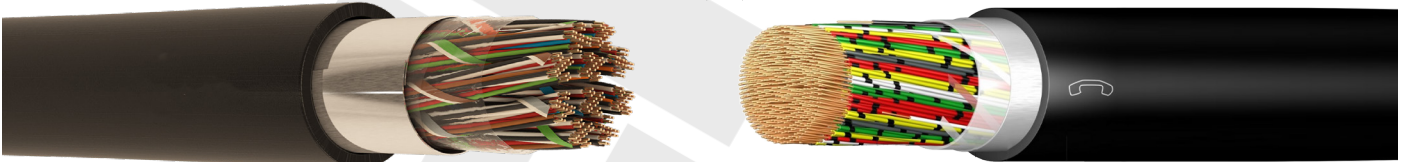
### CODES of CABLE

- KPD-AP; A-02YS(L)2Y

### CONSTRUCTION

**Conductor:** Electrolytic annealed solid copper (CCITT Yellow Book Vol. III-2-G.541 B article, IEC 28 and ASTM B 3)  
**Insulation:** Color coded foam skin polyethylene clad with solid polyethylene (BS 6234 Type 03 - ASTM D 1248)  
**Stranding:** Star quads or pairs, each having special lay length to minimize the crosstalk and capacitance unbalance, are assembled into 10 pairs units. Groups having 25, 50 or 100 pairs are stranded together into cable core  
**Wrapping:** A non-hygroscopic and dielectric polyester tape is applied on the cable core longitudinally or helically  
**Screen:** Both sides are coated with copolymer coated flat aluminium tape over cable core longitudinally for screening  
**Outer Jacket:** Linear low-density or medium-density, UV resistant black polyethylene outer jacket (ASTM D 1248).

## PD-AP A-2Y(L)2Y



### TECHNICAL DATA

- Max. Operating Temperature: 70°C
- Min. Bending Radius: 10 x cable Ø
- Production Standards: EN 60794-3-12

### INTRODUCTION

These cables are used as underground cable ducts. These cables having 0.4 and 0.5 mm conductor diameter are used for distribution network and 0.6, 0.63, 0.65, 0.8 and 0.9 mm conductor diameter are used for long distance network.

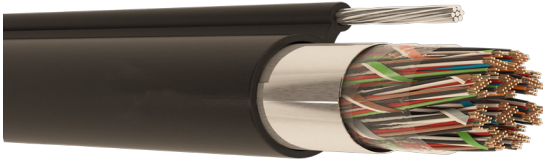
### CODES of CABLE

- PD-AP; A-2Y(L)2Y

### CONSTRUCTION

**Conductor:** Electrolytic annealed solid copper (CCITT Yellow Book Vol. III-2-G.541 B article, IEC 28 and ASTM B 3)  
**Insulation:** Color coded solid polyethylene (BS 6234 Type 03 - ASTM D 1248)  
**Stranding:** Star quads or pairs, each having special lay length to minimize the crosstalk and capacitance unbalance, are assembled into 10 pairs units. Groups having 25, 50 or 100 pairs are stranded together into cable core  
**Wrapping:** A non-hygroscopic and dielectric polyester tape is applied on the cable core longitudinally or helically  
**Screen:** Both sides are coated with copolymer coated flat aluminium tape over cable core longitudinally for screening  
**Outer Jacket:** Linear low-density or medium-density, UV resistant black polyethylene outer jacket (ASTM D 1248)

## KPD-AP-A A-02YS(L)T2Y



### TECHNICAL DATA

- Max. Operating Temperature: 70°C
- Min. Bending Radius: 10 x cable Ø
- Production Standards: EN 60794-3-12

### INTRODUCTION

These cables are used as underground cable ducts. These cables having 0.4 and 0.5 mm conductor diameter are used for distribution network and 0.6, 0.63, 0.65, 0.8 and 0.9 mm conductor diameter are used for long distance network.

### CODES of CABLE

- KPD-AP; A-02YS(L)2Y

### CONSTRUCTION

**Conductor:** Electrolytic annealed solid copper

**Insulation:** Color coded foam skin polyethylene clad with solid polyethylene (BS 6234 Type 03 - ASTM D 1248)

**Stranding:** Star quads or pairs, each having special lay length to minimize the crosstalk and capacitance unbalance, are assembled into 10 pairs units. Groups having 25, 50 or 100 pairs are stranded together into cable core

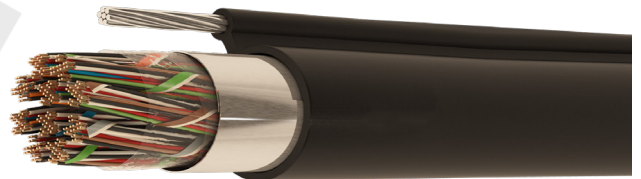
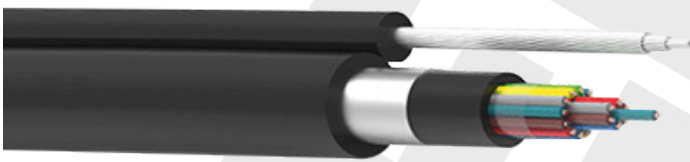
**Wrapping:** A non-hygroscopic and dielectric polyester tape is applied on the cable core longitudinally or helically

**Screen:** Both sides are coated with copolymer coated flat aluminium tape over cable core longitudinally for screening

**Messenger Wire:** Galvanized steel messenger wire (ASTM A 475-66T)

**Outer Jacket:** Linear low-density or medium-density, UV resistant black polyethylene outer jacket (ASTM D 1248)

## PD-AP-A A-2Y(L)T2Y



### TECHNICAL DATA

- Max. Operating Temperature: 70°C
- Min. Bending Radius: 10 x cable Ø
- Production Standards: EN 60794-3-12

### INTRODUCTION

These cables are used as underground cable ducts. These cables having 0.4 and 0.5 mm conductor diameter are used for distribution network and 0.6, 0.63, 0.65, 0.8 and 0.9 mm conductor diameter are used for long distance network.

### CODES of CABLE

- PD-AP; A-2Y(L)2Y

### CONSTRUCTION

**Conductor:** Electrolytic annealed solid copper

**Insulation:** Color coded solid polyethylene (BS 6234 Type 03 - ASTM D 1248)

**Stranding:** Star quads or pairs, each having special lay length to minimize the crosstalk and capacitance unbalance, are assembled into 10 pairs units. Groups having 25, 50 or 100 pairs are stranded together into cable core

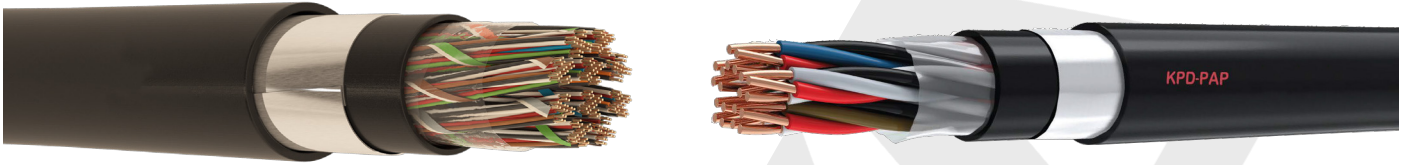
**Wrapping:** A non-hygroscopic and dielectric polyester tape is applied on the cable core longitudinally or helically

**Screen:** Both sides are coated with copolymer coated flat aluminium tape over cable core longitudinally for screening

**Messenger Wire:** Galvanized steel messenger wire (ASTM A 475-66T)

**Outer Jacket:** Linear low-density or medium-density, UV resistant black polyethylene outer jacket (ASTM D 1248)

## KPD-PAP - PD-PAP A-02YS2Y(L)2Y - A-2Y2Y(L)2Y



### TECHNICAL DATA

- Max. Operating Temperature: 70°C
- Min. Bending Radius: 10 x cable Ø
- Production Standards: EN 60794-3-12

### INTRODUCTION

These cables are used in direct burial, telephone exchanges and subscriber distributions. These cables having 0.4 and 0.5 mm conductor diameter are used for distribution network and 0.6, 0.63, 0.65, 0.8 and 0.9 mm conductor diameter are used for long distance network.

### CODES of CABLE

- KPD-PAP - PD-PAP; A-02YS2Y(L)2Y - A-2Y2Y(L)2Y

### CONSTRUCTION

**Conductor:** Electrolytic annealed solid copper

**Insulation:** Color coded foam skin polyethylene clad with solid polyethylene (BS 6234 Type 03 - ASTM D 1248)

**Stranding:** Star quads or pairs, each having special lay length to minimize the crosstalk and capacitance unbalance, are assembled into 10 pairs units. Groups having 25, 50 or 100 pairs are stranded together into cable core

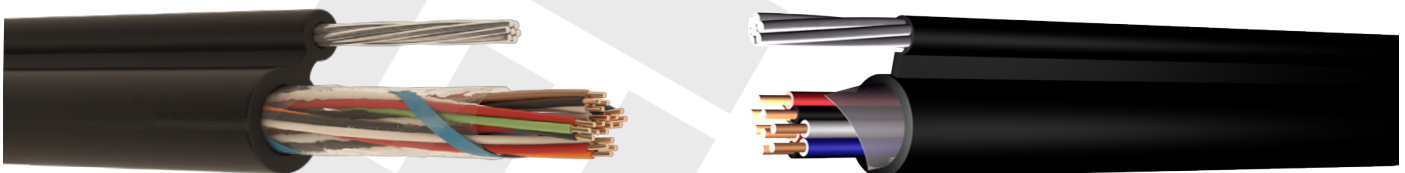
**Wrapping:** A non-hygroscopic and dielectric polyester tape is applied on the cable core longitudinally or helically

**Inner Jacket:** Linear low-density or medium-density, UV resistant black polyethylene outer jacket (ASTM D 1248)

**Screen:** Both sides are coated with copolymer coated flat aluminium tape over cable core longitudinally for screening

**Outer Jacket:** Linear low-density or medium-density, UV resistant black polyethylene outer jacket (ASTM D 1248)

## KPD-P-A - PD-P-A A-02YST2Y - A-2YT2Y



### TECHNICAL DATA

- Max. Operating Temperature: 70°C
- Min. Bending Radius: 10 x cable Ø
- Production Standards: EN 60794-3-12

### INTRODUCTION

These cables are designed to provide service extension to the subscribers. These cables having 0.5 mm conductor diameter are used for distribution network and 0.6 and 0.9 mm conductor diameter are used for long distance network.

### CODES of CABLE

- KPD-P-A - PD-P-A; A-02YST2Y - A-2YT2Y

### CONSTRUCTION

**Conductor:** Electrolytic annealed solid copper

**Insulation:** Color coded solid polyethylene (BS 6234 Type 03 - ASTM D 1248)

**Stranding:** Star quads or pairs, each having special lay length to minimize the crosstalk and capacitance unbalance, are assembled into 10 pairs units. Groups having 25, 50 or 100 pairs are stranded together into cable core

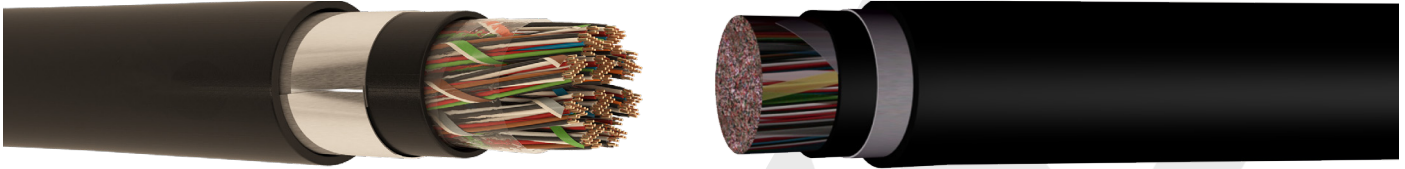
**Wrapping:** A non-hygroscopic and dielectric polyester tape is applied on the cable core longitudinally or helically

**Screen:** Both sides are coated with copolymer coated flat aluminium tape over cable core longitudinally for screening

**Messenger Wire:** Galvanized steel messenger wire (ASTM A 475-66T)

**Outer Jacket:** Linear low-density or medium-density, UV resistant black polyethylene outer jacket (ASTM D 1248)

## KPD-HAH A-02YSH(L)H



### TECHNICAL DATA

- Max. Operating Temperature: 70°C
- Min. Bending Radius: 10 x cable Ø
- Production Standards: EN 60794-3-12

### INTRODUCTION

These cables are used in direct burial, underground cable ducts, indoor installations. These cables having 0.4 and 0.5 mm conductor diameter are used for distribution network and 0.6, 0.63, 0.65, 0.8 and 0.9 mm conductor diameter are used for long distance network.

### CODES of CABLE

- KPD-HAH; A-02YSH(L)H

### CONSTRUCTION

**Conductor:** Electrolytic annealed solid copper

**Insulation:** Color coded foam skin polyethylene clad with solid polyethylene (BS 6234 Type 03 - ASTM D 1248)

**Stranding:** Star quads or pairs, each having special lay length to minimize the crosstalk and capacitance unbalance, are assembled into 10 pairs units. Groups having 25, 50 or 100 pairs are stranded together into cable core

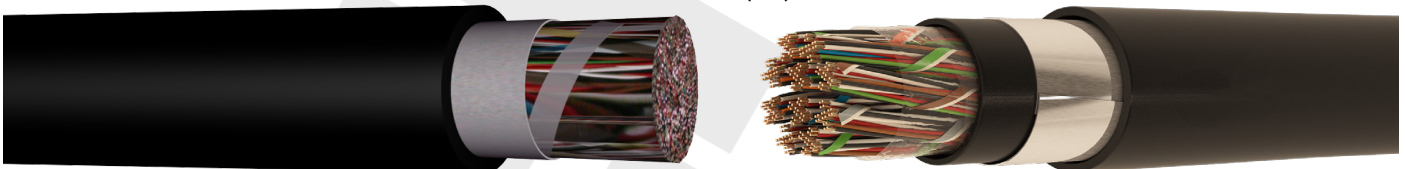
**Wrapping:** A non-hygroscopic and dielectric polyester tape is applied on the cable core longitudinally or helically

**Inner Jacket:** Flame retardant, UV resistant halogen-free outer jacket. RAL 7035 (Grey)

**Screen:** Both sides are coated with copolymer coated flat aluminium tape over cable core longitudinally for screening

**Outer Jacket:** Flame retardant, UV resistant halogen-free outer jacket. RAL 7035 (Grey)

## KPDF-AP A-02YSF(L)2Y



### TECHNICAL DATA

- Max. Operating Temperature: 70°C
- Min. Bending Radius: 10 x cable Ø
- Production Standards: EN 60794-3-12

### INTRODUCTION

These cables are used as underground cable ducts. These cables having 0.4 and 0.5 mm conductor diameter are used for distribution network and 0.6, 0.63, 0.65, 0.8 and 0.9 mm conductor diameter are used for long distance network.

### CODES of CABLE

- KPDF-AP; A-02YSF(L)2Y

### CONSTRUCTION

**Conductor:** Electrolytic annealed solid copper

**Insulation:** Color coded solid polyethylene (BS 6234 Type 03 - ASTM D 1248)

**Stranding:** Star quads or pairs, each having special lay length to minimize the crosstalk and capacitance unbalance, are assembled into 10 pairs units. Groups having 25, 50 or 100 pairs are stranded together into cable core

**Filling Compound:** Cable core is filled with a special jelly filling compound to avoid the water leakage into air spaces

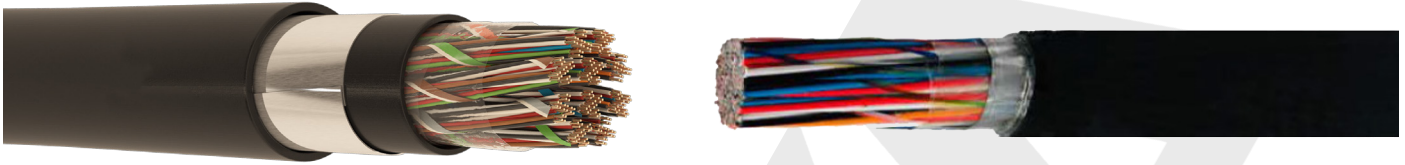
**Wrapping:** A non-hygroscopic and dielectric polyester tape is applied on the cable core longitudinally or helically

**Filling Compound:** Secondary jelly filling is applied between wrapping and screen in order to provide water-proofness

**Screen:** Both sides are coated with copolymer coated flat aluminium tape over cable core longitudinally for screening

**Outer Jacket:** Linear low-density or medium-density, UV resistant black polyethylene outer jacket (ASTM D 1248)

## PDF-AP A-2YF(L)2Y



### TECHNICAL DATA

- Max. Operating Temperature: 70°C
- Min. Bending Radius: 10 x cable Ø
- Production Standards: EN 60794-3-12

### INTRODUCTION

These cables are used in direct burial, telephone exchanges and subscriber distributions. These cables having 0.4 and 0.5 mm conductor diameter are used for distribution network and 0.6, 0.63, 0.65, 0.8 and 0.9 mm conductor diameter are used for long distance network.

### CODES of CABLE

- PDF-AP; A-2YF(L)2Y

### CONSTRUCTION

**Conductor:** Electrolytic annealed solid copper

**Insulation:** Color coded solid polyethylene (BS 6234 Type 03 - ASTM D 1248)

**Stranding:** Star quads or pairs, each having special lay length to minimize the crosstalk and capacitance unbalance, are assembled into 10 pairs units. Groups having 25, 50 or 100 pairs are stranded together into cable core

**Filling Compound:** Cable core is filled with a special jelly filling compound to avoid the water leakage into air spaces

**Wrapping:** A non-hygroscopic and dielectric polyester tape is applied on the cable core longitudinally or helically

**Filling Compound:** Secondary jelly filling is applied between wrapping and screen in order to provide water-proofness

**Screen:** Both sides are coated with copolymer coated flat aluminium tape over cable core longitudinally for screening

**Outer Jacket:** Linear low-density or medium-density,

UV resistant black polyethylene outer jacket (ASTM D 1248)

## KPDF-AP-A A-02YSF(L)T2Y



### TECHNICAL DATA

- Max. Operating Temperature: 70°C
- Min. Bending Radius: 10 x cable Ø
- Production Standards: EN 60794-3-12

### INTRODUCTION

These cables are designed to provide service extension to the subscribers. These cables having 0.5 mm conductor diameter are used for distribution network and 0.6 and 0.9 mm conductor diameter are used for long distance network.

### CODES of CABLE

- KPDF-AP-A; A-02YSF(L)T2Y

### CONSTRUCTION

**Conductor:** Electrolytic annealed solid copper

**Insulation:** Color coded solid polyethylene (BS 6234 Type 03 - ASTM D 1248)

**Stranding:** Star quads or pairs, each having special lay length to minimize the crosstalk and capacitance unbalance, are assembled into 10 pairs units. Groups having 25, 50 or 100 pairs are stranded together into cable core

**Filling Compound:** Cable core is filled with a special jelly filling compound to avoid the water leakage into air spaces

**Wrapping:** A non-hygroscopic and dielectric polyester tape is applied on the cable core longitudinally or helically

**Filling Compound:** Secondary jelly filling is applied between wrapping and screen in order to provide water-proofness

**Screen:** Both sides are coated with copolymer coated flat aluminium tape over cable core longitudinally for screening

**Outer Jacket:** Linear low-density or medium-density,

UV resistant black polyethylene outer jacket (ASTM D 1248)



## PDF-AP-A A-2YF(L)T2Y



### TECHNICAL DATA

- Max. Operating Temperature: 70°C
- Min. Bending Radius: 10 x cable Ø
- Production Standards: EN 60794-3-12

### INTRODUCTION

These cables are used in the country, rural areas for aerial purposes between poles. These cables having 0.4 and 0.5 mm conductor diameter are used for distribution network and 0.6, 0.63, 0.65, 0.8 and 0.9 mm conductor diameter are used for long distance network.

### CODES of CABLE

- PDF-AP-A; A-2YF(L)T2Y

### CONSTRUCTION

**Conductor:** Electrolytic annealed solid copper

**Insulation:** Color coded solid polyethylene (BS 6234 Type 03 - ASTM D 1248)

**Stranding:** Star quads or pairs, each having special lay length to minimize the crosstalk and capacitance unbalance, are assembled into 10 pairs units. Groups having 25, 50 or 100 pairs are stranded together into cable core

**Filling Compound:** Cable core is filled with a special jelly filling compound to avoid the water leakage into air spaces

**Wrapping:** A non-hygroscopic and dielectric polyester tape is applied on the cable core longitudinally or helically

**Filling Compound:** Secondary jelly filling is applied between wrapping and screen in order to provide water-proofness

**Screen:** Both sides are coated with copolymer coated flat aluminium tape over cable core longitudinally for screening

**Messenger Wire:** Galvanized steel messenger wire (ASTM A 475-66T)

**Outer Jacket:** Linear low-density or medium-density, UV resistant black polyethylene outer jacket (ASTM D 1248)

## DROP WIRE AERIAL



### TECHNICAL DATA

- Max. Operating Temperature: 70°C
- Min. Bending Radius: 10 x cable Ø
- Production Standards: EN 60794-3-12

### INTRODUCTION

These cables are used in direct burial, telephone exchanges and subscriber distributions.

### CODES of CABLE

- Drop Wire Aerial

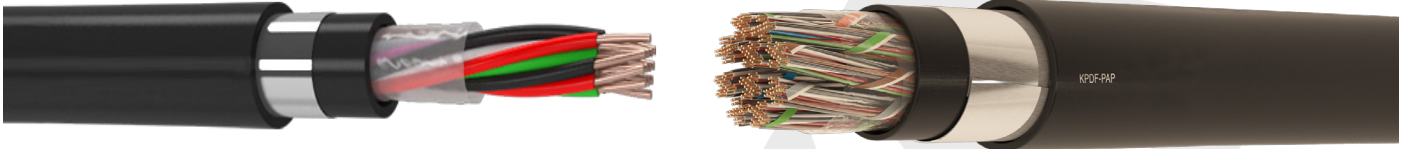
### CONSTRUCTION

**Conductor:** Electrolytic annealed solid copper (TS 2, IEC28, ASTM B3)

**Messenger Wire:** Galvanized steel messenger wire (ASTM A 475-66T)

**Outer Jacket:** Linear low-density or medium-density, UV resistant black polyethylene outer jacket (ASTM D 1248)

## KPDF-PAP - PDF-PAP A-02YSF2Y(L)2Y - A-2YF2Y(L)2Y



### TECHNICAL DATA

- Max. Operating Temperature: 70°C
- Min. Bending Radius: 10 x cable Ø
- Production Standards: EN 60794-3-12

### INTRODUCTION

These cables are used in direct burial, telephone exchanges and subscriber distributions. These cables having 0.4 and 0.5 mm conductor diameter are used for distribution network and 0.6, 0.63, 0.65, 0.8 and 0.9 mm conductor diameter are used for long distance network.

### CODES of CABLE

- KPDF-PAP - PDF-PAP;  
A-02YSF2Y(L)2Y - A-2YF2Y(L)2Y

### CONSTRUCTION

**Conductor:** Electrolytic annealed solid copper

**Insulation:** Color coded foam skin polyethylene clad with solid polyethylene or solid polyethylene insulation (BS 6234 Type 03 - ASTM D 1248)

**Stranding:** Star quads or pairs, each having special lay length to minimize the crosstalk and capacitance unbalance, are assembled into 10 pairs units. Groups having 25, 50 or 100 pairs are stranded together into cable core

**Filling Compound:** Cable core is filled with a special jelly filling compound to avoid the water leakage into air spaces

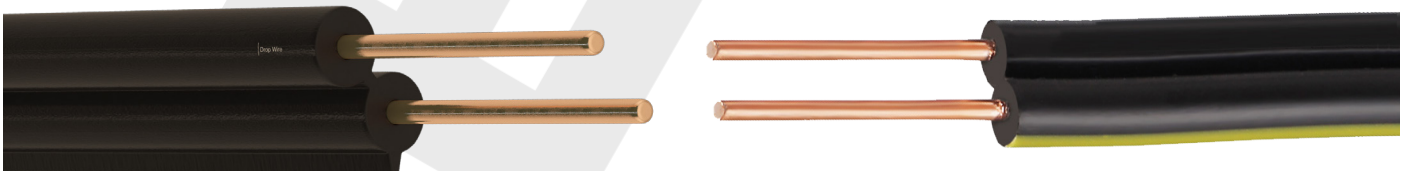
**Wrapping:** A non-hygroscopic and dielectric polyester tape is applied on the cable core longitudinally or helically

**Filling Compound:** A secondary filling compound (Jelly) is applied between inner jacket and screen in order to have water proofness

**Screen:** Both sides are coated with copolymer coated flat aluminium tape over cable core longitudinally for screening

**Outer Jacket:** Linear low-density or medium-density, UV resistant black polyethylene outer jacket (ASTM D 1248)

## DROP WIRE



### TECHNICAL DATA

- Max. Operating Temperature: 70°C
- Min. Bending Radius: 10 x cable Ø
- Production Standards: EN 60794-3-12

### INTRODUCTION

These cables are used in direct burial, telephone exchanges and subscriber distributions.

### CODES of CABLE

- Drop Wire

### CONSTRUCTION

**Conductor:** Electrolytic solid copper (TS 2, IEC28, ASTM B3)

**Outer Jacket:** Linear low-density or medium-density, UV resistant black polyethylene outer jacket (ASTM D 1248)

## KPDF-PABP A-02YSF(L)2YB2Y



### TECHNICAL DATA

- Max. Operating Temperature: 70°C
- Min. Bending Radius: 10 x cable Ø
- Production Standards: EN 60794-3-12

### INTRODUCTION

These cables are used in direct burial, telephone exchanges and subscriber distributions. These cables having 0.4 and 0.5 mm conductor diameter are used for distribution network and 0.6, 0.63, 0.65, 0.8 and 0.9 mm conductor diameter are used for long distance network.

### CODES of CABLE

- KPDF-PABP; A-02YSF(L)2YB2Y

### CONSTRUCTION

**Conductor:** Electrolytic annealed solid copper

**Insulation:** Color coded foam skin polyethylene clad with solid polyethylene or solid polyethylene insulation (BS 6234 Type 03 - ASTM D 1248)

**Stranding:** Star quads or pairs, each having special lay length to minimize the crosstalk and capacitance unbalance, are assembled into 10 pairs units. Groups having 25, 50 or 100 pairs are stranded together into cable core

**Filling Compound:** Cable core is filled with a special jelly filling compound to avoid the water leakage into air spaces

**Wrapping:** A non-hygroscopic and dielectric polyester tape is applied on the cable core longitudinally or helically

**Filling Compound:** Secondary jelly filling is applied between wrapping and screen in order to provide water proofness

**Screen:** Both sides are coated with copolymer coated flat aluminium tape over cable core longitudinally for screening

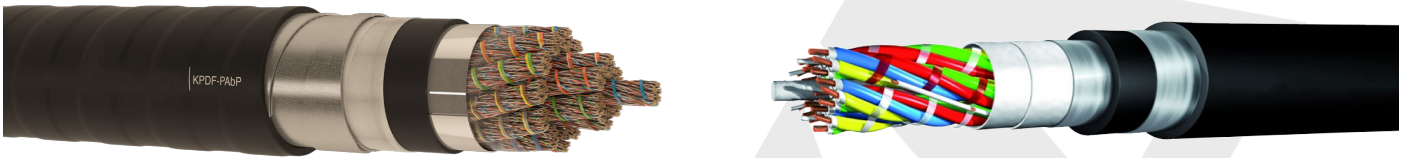
**Inner Jacket:** Linear low-density or medium-density, UV resistant black polyethylene outer jacket (ASTM D 1248)

**Filling Compound:** A filling compound (Jelly) is applied between inner jacket and armour in order to have water proofness

**Armour:** Copolymer coated corrugated steel tape is applied to secure the cable from rodents

**Outer Jacket:** Linear low-density or medium-density, UV resistant black polyethylene outer jacket (ASTM D 1248)

## KPDF-PAbP - PDF-PAbP A-02YSF(L)2Yb2Y - A-2YF2Y(L)b2Y



### TECHNICAL DATA

- Max. Operating Temperature: 70°C
- Min. Bending Radius: 10 x cable Ø
- Production Standards: EN 60794-3-12

### INTRODUCTION

These cables are used in direct burial, telephone exchanges and subscriber distributions. These cables having 0.4 and 0.5 mm conductor diameter are used for distribution network and 0.6, 0.63, 0.65, 0.8 and 0.9 mm conductor diameter are used for long distance network.

### CODES of CABLE

- KPDF-PAbP - PDF-PAbP;  
A-02YSF(L)2Yb2Y - A-2YF2Y(L)b2Y

### CONSTRUCTION

**Conductor:** Electrolytic annealed solid copper

**Insulation:** Color coded foam skin polyethylene clad with solid polyethylene or solid polyethylene insulation (BS 6234 Type 03 - ASTM D 1248)

**Stranding:** Star quads or pairs, each having special lay length to minimize the crosstalk and capacitance unbalance, are assembled into 10 pairs units. Groups having 25, 50 or 100 pairs are stranded together into cable core

**Filling Compound:** Cable core is filled with a special jelly filling compound to avoid the water leakage into air spaces

**Wrapping:** A non-hygroscopic and dielectric polyester tape is applied on the cable core longitudinally or helically

**Filling Compound:** Secondary jelly filling is applied between wrapping and screen in order to provide water proofness

**Screen:** Both sides are coated with copolymer coated flat aluminium tape over cable core longitudinally for screening

**Inner Jacket:** Linear low-density or medium-density, UV resistant black polyethylene outer jacket (ASTM D 1248)

**Filling Compound:** Water-swellable tape or filling compound (Jelly) is applied between inner jacket and armour in order to have water proofness

**Armour:** Two helically laid galvanized steel tape is applied to increase the mechanical resistance of the cable

**Outer Jacket:** Linear low-density or medium-density, UV resistant black polyethylene outer jacket (ASTM D 1248)