



# Cable Solutions for **INTELLIGENT BUILDING SYSTEMS**

PRODUCT CATALOGUE

[www.ponycables.com](http://www.ponycables.com)



## INTRODUCTION

**PONY Cable delivers innovative value added services, an extensive range of cable products and cost effective Cabling solutions.**

Buildings & Industrial, Utilities, and Telecommunications are our active market sectors with an extensive array of products specifically designed and produced to satisfy the demanding needs of the Global market place.

PONY Cable products are of the highest quality, but what sets PONY apart is world class service. If you're looking for any of these cabling solutions, then you should talk to PONY Cables.

- Telephone
- Multi Pair
- Coaxial
- Power Flex
- Network
- Fire Alarm
- Speaker

## Performance

Some of our customers see the superior performance of our products in their industry leading standards. Our products are often called 'future-proof', meaning that the specifications exceed international requirements, with the aim of extending the product's useful life and reducing the replacement rate.

## Reliability

Over the years, Pony has become an accolade for excellence earned through decades of dedication to meeting the highest industry standards. Reducing system cost and maintenance are direct, long-term benefits of the ultra long life expectancy of Pony products. And why many industrial installation with 24-hours continuous operation rely on the proven high quality of Pony Cables.

## PONY PRODUCT RANGE

- TELEPHONE - VOICE CABLES
- TELEPHONE UNDERGROUND JELLYFILLED CABLES
- NETWORK - DATA CABLES
- NETWORK - DATA PATCH CABLES
- NETWORK - DATA FACE PLATE & I/O's
- COAXIAL CABLES
- FIRE ALARM CABLES
- FIBRE - INDOOR CABLES
- FIBRE - OUTDOOR UNDERGROUND JELLY FILLED CABLES
- FIBRE - ODF JOINT CLOSURES
- POWER FLEX CABLES
- SPEAKER CABLES
- PATCH PANEL & DISTRIBUTION BOX



## TELEPHONE - VOICE CABLES

2 to 100 pairs with 22AWG conductors - PVC sheath for complete voice Applications

### Product Description

<b>1. Conductor</b> Copper 22 AWG (0.6mm)	<b>5. Copper Drain Wire</b> 24 AWG (0.4mm)	<b>Standard Put Up Length</b> 90 or 1000 meters
<b>2. Insulation</b> PVC	<b>6. Screen</b> Aluminium/Polyester >115% Coverage	<b>Standard References</b> ANSI/TIA.EIA-232-F BS EN 50290-2 IEC 603321-1 RoHS directives
<b>3. Pair</b> Two twisted wires	<b>7. Sheath Material</b> Grey PVC	
<b>4. Cable core</b> 2 or more pairs stranded		

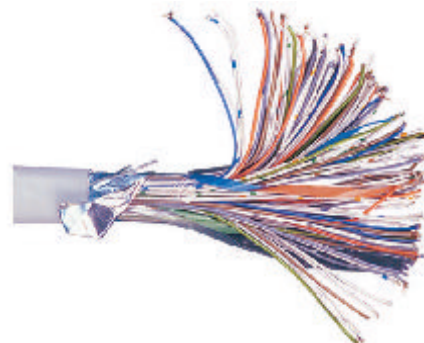
### Cables with 22AWG conductors - PVC insulation - PVC sheath

No. of Pairs	Conductor and Drain Wire (AWG)	Nominal Overall Diameter (mm)	Max. DC Conductor Resistance ( /KM)	Capacitance (pf/m)	Normal Impedance (Ohm)	Weight (kg/km)
2	22	5.6	88	76	75	28
3	22	5.9	88	76	75	39
5	22	7.3	88	76	75	49
8	22	8.1	88	76	75	59
10	22	8.4	88	76	75	60
20	22	10.3	88	76	75	80
30	22	11.1	88	76	75	125
50	22	12.1	88	76	75	160
100	22	16.5	88	76	75	310

### Colour Scheme

No. of Pairs	Colour of A Wire	Insulation B Wire
1	White	Blue
2	White	Orange
3	White	Green
4	White	Brown
5	White	Grey
6	Red	Blue
7	Red	Orange
8	Red	Green
9	Red	Brown
10	Red	Grey

No. of Pairs	Colour of A Wire	Insulation B Wire
11	White/Blue	Blue
12	White/Orange	Orange
13	White/Green	Green
14	White/Brown	Brown
15	White/Grey	Grey
16	Red/Blue	Blue
17	Red/Orange	Orange
18	Red/Green	Green
19	Red/Brown	Brown
20	Red/Grey	Grey



# TELEPHONE - JELLY FILLED CABLE

Designed for Underground installations where duct congestion is a major concern.

## Description

Polyethylene insulated, Petroleum Jelly Filled, Double Steel Tape Armoured polyethylene Sheathed

## Construction

**Conductor** : Solid bare annealed copper wire of nominal diameter 0.4mm–0.6mm

**Insulation** : Solid, cellular or foam–skin polyolefin material

**Twisting** : Two conductor are twisted into pair

**Stranding** : In sub unit of 5 or 10 pairs, and in unit of 50 , 100 more than 100 pairs of pairs of cables.

## Longitudinal

**Watertightness** : By filling the, interstices of the cores with petroleum jelly compound

**Moisture barrier** : Screen of longitudinally applied smooth copolymer coated aluminium tape

**Inner sheath** : Black P E

**Armour** : Double steel tape helically applied

**Sheath** : Black weather resistant P E

**Characteristics** : Dielectric strength : 500V

: Min individual Resistance at 20 C: 1500 ohm–km

: Max individual mutual capacitance: 64nF/km

: Max average mutual capacitance for cable more than or equal to 20pair: 56nF/km

: Max capacitance unbalance at 800 Hz / 500 M Length of cable :275 pF/km

: Max conductor loop resistance at 20 C

Size, mm	0.4	0.5	0.6
Resistance, /km:	300	191.8	133.2



## LAN CABLES

### Application and Construction of Category Cables for Local Area Networks and structured Wiring System

#### Application

Horizontal or Building Wiring for one of the following categories of twisted pair cabling systems.

Category	Max. Data rate	Usual application	Standard(s)		
			TIA/EIA	ISO/IEC	EN
Cat 1	1 Mbps	Analogue Voice	De facto, no standard issued		
Cat 2	4 Mbps	Token ring of IBM			
Cat 3	16 Mbps	Voice, 10MbE(Ethernet)	TIA/EIA 568-B		
Cat 4	20 Mbps	16 MbpsToken Ring	Was only a standard brief		
Cat 5	100 MHz	10/100/1000MbE	Replaced by 5e	ISO/IEC 11806, 2 <sup>nd</sup> edition IEC 61156	EN 50173-1 EN 50288
Cat 5e	100 MHz	155 Mbps ATM, 4/16 Mbps Token Ring			
Cat 6	250 MHz	As Cat5e plus 10Gb Ethernet over < 55m.	TIA/EIA 568-C.2	ISO/IEC 11801, 2002, category 7/class F	
Cat 6a	500 MHz	As Cat 6 plus 10Gb Ethernet over 100m.			
Cat 7	600 MHz	As Cat 6a plus supporting 100GbE			
Cat 7a	1000 MHz	CATV (862 MHz), 40GBASE-T over 50 m, 100GbE over 15m.	Cat 7a is not recognised in TIA/EIA-569	ISO/IEC 11801, amendment 1 (2008) and amendment 2 (2010).	

#### Basic Construction of the standard cables

	Cat 5e		Cat 6	
	UTP	FTP	UTP	FTP
Type	UTP	FTP	UTP	FTP
Conductor	Solid BC		Solid BC	
Insulation	PVC/PE		PVC/PE	
Cable core	4 pairs & 25 pairs		4 pairs	
Core wrapping	PVC			
Drain Wire	no	yes	no	yes
Overall screen	no	foil	no	foil
Sheath	PVC			

- UTP** = cable with unshielded twisted pairs
- FTP** = cable with foil screened twisted pairs
- U-UTP** = cable with no collective screen and no individually screened twisted pairs
- U-FTP** = cables with no collective screen and individually foil screened twisted pairs
- S-FTP** = cables with a collective braided screen and individually foil screened twisted pairs

#### Basic Construction of the cables

**Wire** = Conductor with insulation

**Insulation:** With good strippability suitable for insulation displacement and coloured. The colours are not interchangeable.

**Pair** = two twisted – colour coded – wires

#### General Characteristics

Product Type		Cat 5e	Cat 6	Cat 6a	Cat 7
Max. DCR conductor	/100	9.38	9.38	7.7	7.7
Impedance		100	100	100	100

#### Standard Colour scheme of Cat 5e - 6 - 6a and 7:

Pair number	Pair 1	Pair 2	Pair 3	Pair 4
a- wire	Blue	Orange	Green	Brown
b- wire	white with blue stripe	white with orange stripe	white with green stripe	white with brown stripe



## LAN CABLES

### Physical Characteristics of Cat 5e cables

Type	Sheath	Overall Diameter (mm)	Weight (kg/km)
UTP	PVC	5.0	30
UTP-UL	PVC	5.0	30
UTP	HFFR	5.0	29
FTP	PVC	6.3	42
FTP-UL	PVC	6.3	42
FTP	HFFR	6.3	42



### Main Transmission Characteristics of Cat 5e cables

Frequency (MHz)	Min. Return Loss (dB/100)	Maximum Attenuation (dB/100)	Maximum NEXT (dB)	Maximum Time Delay (ns/100m)	Maximum PSNEXT (bB)	Maximum ELFEXT (bB)	Maximum PSELFEXT (bB)
1	20.0	2.0	65.3	570.00	62.3	64.0	61.0
4	23.0	4.1	56.3	552.00	53.3	52.0	49.0
8	24.5	5.8	51.8	546.73	45.9	45.9	42.9
10	25.0	6.5	50.3	545.38	44.0	44.0	41.0
16	25.0	8.2	47.2	543.00	39.9	39.9	36.9
20	25.0	9.3	45.8	542.05	38.0	38.0	35.0
25	24.3	10.4	44.3	541.20	35.8	35.8	33.0
31.25	23.6	11.7	42.9	540.44	34.1	34.1	31.1
62.5	21.5	17.0	38.4	538.55	28.1	28.1	25.1
100	20.1	22.0	35.3	537.60	24.0	24.0	21.0

### Main Transmission Characteristics of Cat 6 cables

Frequency (MHz)	Min. Return Loss (dB/100)	Maximum Attenuation (dB/100)	Maximum NEXT (dB)	Maximum Time Delay (ns/100m)	Maximum PSNEXT (bB)	Maximum ELFEXT (bB)	Maximum PSELFEXT (bB)
1	20.0	2.0	74.3	570.00	72.3	67.8	64.8
4	23.0	3.8	65.3	552.00	63.3	55.8	52.8
8	24.5	5.3	60.8	546.73	58.8	49.7	46.7
10	25.0	6.0	59.3	545.38	57.3	47.8	44.8
16	25.0	7.6	56.2	543.00	54.3	43.7	40.7
20	25.0	8.5	54.8	542.05	52.8	41.8	38.8
25	24.3	9.5	53.3	541.20	51.3	39.8	36.8
31.25	23.6	10.7	51.9	540.44	49.9	37.9	34.9
62.5	21.5	15.4	47.4	538.55	45.4	31.9	28.9
100	20.1	19.8	44.3	537.80	42.3	27.8	24.8
200	18.0	29.0	39.8	536.54	37.8	21.8	18.8
250	17.3	32.8	38.3	536.27	36.3	19.5	16.8

### Physical Characteristics of Cat 6 cables

B3 Part Number	Type	Sheath	Overall Diameter (mm)	Weight (kg/km)
C1037	UTP	PVC	6.2	42
C1287	UTP-UL	PVC	6.2	42
C1237	UTP	HFFR	6.2	42
C1038	FTP	PVC	7.4	56
C1288	FTP-UL	PVC	7.4	56
C1238	FTP	HFFR	7.4	54,1

## COAX CABLES

### Application and Construction of Coax Cable for 75 Ohm Video Systems

**Applications:**

**CCTV:** Closed Circuit Television uses video cameras to transmit a signal to a specific place, on a limited set of monitors

**SMATV:** Satellite Master Antenna Television used to deliver signals to multiple dwelling units (e.g., apartment buildings and Trailer parks).

**CATV:** Central Antenna Television is a system of providing television to consumers via radio frequency signals transmitted to televisions. Nowadays also used for internet and telephone.

**HDTV:** High-definition television refers to video having resolution substantially higher than traditional television systems.

PONY Coaxial cables are designed to carry radio frequency signals of much higher frequency than the 50 or 60 Hz used in low voltage cables. This requires special construction to prevent power losses. If an ordinary wire is used to carry high frequency signals, the wire acts as antenna and high frequency signals radiate off the wire as radio waves, causing power losses. To prevent this, in coaxial cable one of the conductors is formed into a tube and encloses the other conductor. This confines the radio waves from the central conductor to the space inside the tube. To prevent the outer conductor, or shield, from radiating, it is connected to electrical ground, keeping it at a constant potential.

The dimensions and spacing of the conductors must be uniform throughout the length of the cable. Any abrupt change in the spacing of the two conductors along the cable tends to reflect radio frequency power back toward the source. This acts as a bottleneck, reducing the amount of power reaching the destination end of the cable.

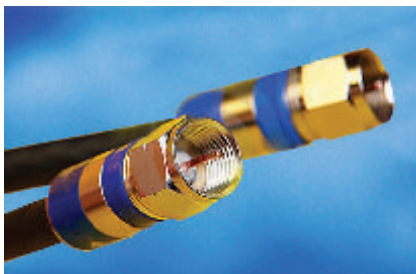
<b>Analogue TV</b>	RG6	Gives superior performance on cable runs less than 350 meters
	RG11	For cable runs greater than 545 meters
<b>CCTV</b>	RG6	Gives superior performance on cable runs less than 350 meters
	RG11	For cable runs greater than 545 meters

## OHM COAX CABLES (STANDARD)

SMATV - CATV and Video applications, sweep tested 1 to 3000 MHz

### Product Description

<b>1. Conductor</b> Solid bare Copper Covered Steel (CCS)	<b>4. Braid</b> Copper Clad Aluminium	<b>Standard Put Up Length</b> 305 meters
<b>2. Dielectric</b> Foamed Polyethylene (FPC)	<b>5. Braid 2 (Quad scrn only)</b> Aluminium/Polyester foil 100% Coverage	<b>Standard References</b> IEC 61196 BS EN 50117 BS EN 50290-2 IEC 60332-1 RoHS directives
<b>3. Screen 1</b> Bonded Aluminium/Polyester foil 100% coverage	<b>6. Screen 2 (Quad scrn only)</b> Aluminium	
	<b>7. Sheath</b> Polyvinyl Chloride (PVC)	





## 75 OHM COAX CABLES (STANDARD)

### Physical Characteristics

RG-Type	Conductor (mm)	Diameter over Dielectric (mm)	Type of screen	Coverage braid (%)	Sheath Material	Overall Diameter (mm)	Weight (kg/km)
RG-6	1.02	4.60	Dual scrn	60	PVC	6.8	41.32
RG-11	1.63	7.11	Dual scrn	61	PVC	10.0	86.6

### Electrical and Physical Characteristics (at 20°0)

RG-Type	Impedence ( )	Max. DC Conductor Resistance ( /km)	Max DC Screen Resistance ( /km)	Nominal Capacitance (pF/m)	Min. Return Loss (dB)		
					<1000 MHz	<2000 MHz	<3000 MHz
RG-6	75.3	92.2	17	53	20	20	20
RG-11	75.3	36.5	25	53	20	20	20

### Nominal Attenuation in dB/100m

Mhz	5	10	50	100	200	400	550	870	1250	1750	2150	2500	3000
RG-6	2.2	2.48	5.15	6.6	9.56	13.12	15.45	19.69	24.25	29.26	32.88	35.88	39.83
RG-11	1.25	2.03	3.75	5.01	6.85	7.05	9.65	12.6	16.66	20.28	22.93	25.12	28.08

## 75 OHM COAX CABLES (ENHANCED)

### CCTV and Video Applications, sweep tested 1 to 1000 MHz

#### Product Description

<b>1. Conductor</b> Solid Bare Copper	<b>4. Sheath</b> Polyvinyl Chloride (PVC) or Halogen-Free (HFFR)	<b>Standard References</b> IEC 61196 BS EN 50117 BS EN 50290-2 IEC 60332-1 (PVC sheath) or IEC 60332-3-24 (HFFR cable) IEC 61034 (only HFFR cable) IEC 60754-1 & 2 (HFFR cable) RoHS directives
<b>2. Dielectric</b> Foamed Polyethylene (FPC)	<b>Standard Put Up Length</b> 305 meters	
<b>3. Braid</b> Bare Copper or Copper clad aluminium		

#### Physical Characteristics

RG-Type	Conductor (mm)	Diameter over Dielectric (mm)	Coverage braid (%)	Sheath Material	Overall Diameter (mm)	Weight (kg/km)
RG-6	1.02	4.60	95	PVC	6.8	55.5
RG-11	1.63	7.11	90	PVC	10.0	115.9

#### Electrical and Physical Characteristics (at 20°0)

RG-Type	Impedence ( )	Max. DC Conductor Resistance ( /km)	Max DC Screen Resistance ( /km)	Nominal Capacitance (pF/m)	Min. Return Loss 1 to 1000 MHz (dB)
RG-6	75 3	30	10.8	53.5	20
RG-11	75 3	8.8	6.5	52.8	20



## FIRE DETECTION & ALARM SYSTEM CABLES

**Bare Copper 18 to 12AWG, One pair, PVC insulation Sheath  
Screened and Unscreened**

### Application

Fire Detection and Alarm Systems  
 Fire Retardancy: UL 1666  
 Designed for Fire Alarm Systems to transmit alarm signals.

### Product Description

Fire Resistant Cables having low emission of smoke & corrosive gases when effected by fire.

<b>1. Conductor</b> Solid bare Copper	<b>4. Tinned Copper Drain Wire</b> (only under screen) 22 WG (7 x 30)	<b>Standard Put Up Length</b> 305 meters
<b>2. Insulation</b> PVC acc. to UL444 Black & Red	<b>5. Screen (if applicable)</b> Aluminium/Polyester >100% Coverage	<b>Standard References</b> UL1424 UL444 UL1666 RoHS directives
<b>3. Pair</b> Two wires twisted	<b>6. Sheath Material</b> Red PVC acc. to UL 444	

### Basic Construction of the cables

**Wire:** Conductor with Insulation


**Conductor:** Solid bare copper wires, ranging from 1.0 to 2.5mm

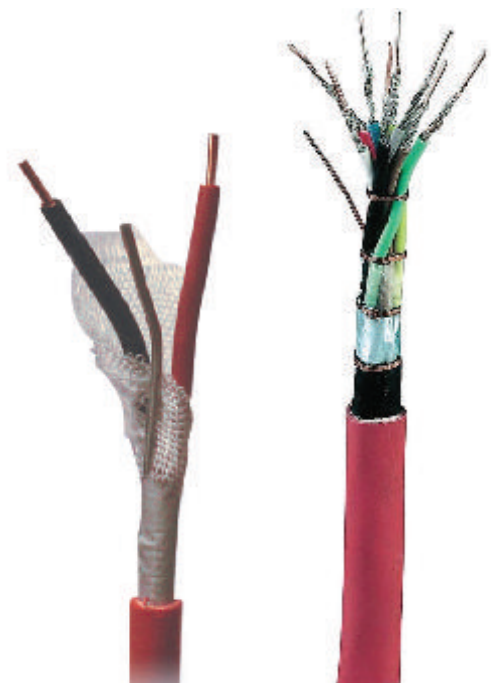
Cross Section (mm)	Construction (n x mm)	Diameter (mm)	DC Conductor Resistance (Ohm/km)	Recommended Current (Amp)
1.5	1 x 1.34	1.4	<12.1	<18
2.5	1 x 1.8	1.8	<7.41	<40

**Operating temperature range:** -40 to +105 C

**Rated Voltage:** 300 Vrms

### UL Listing

E339938	 <b>POWER LIMITED CIRCUIT CABLE</b> No. 000001	FORM 3
LISTED 1000 FEET		



# FIRE RESISTANT CABLES

Item	Conductor		Sheath		Insulation	Wrapping
	Construction (mm)	Section (mm <sup>2</sup> )	Thickness (mm)	Color	Thickness	
2 Core x 1.5mm <sup>2</sup>	7/0.52	1.5	1.2	Red	0.7	PET Tape Thick 0.05, Over Lap 50%
2 Core x 2.5mm <sup>2</sup>	7/0.67	2.5	1.2	Red	0.7	PET Tape Thick 0.05, Over Lap 50%

n = number of wires in strand

**Insulation:** Silicon Rubber blends acc. to BS 7655. Good strippable and coloured insulation. The colours are not interchangeable.

**Cable Core:** Two or more wires, twisted.  
Good twisting is necessary to ensure flexibility and breaking conductors.

**Drain Wire** (only in combination with a screen): solid bare copper.

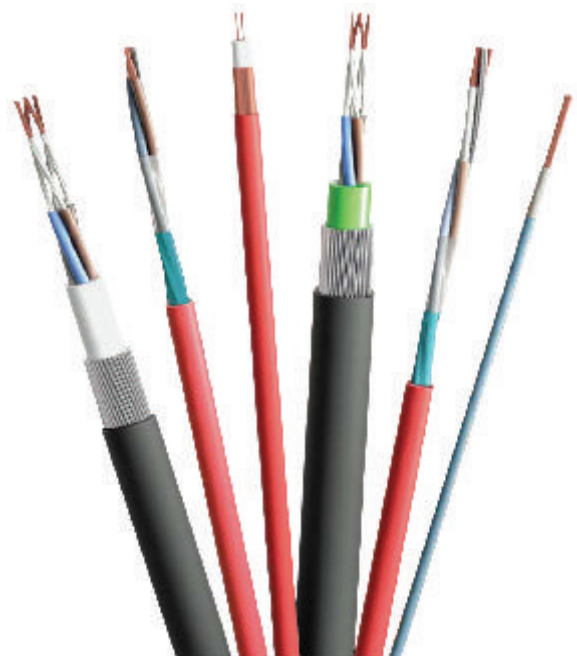
**Screen** (if applicable): Helically applied (as a spiral) Aluminium/Polyester Al-foil. For the flexibility of a cable a helically applied foil is preferred as longitudinally applied foil is more difficult to bend.

**Sheath:** Red HFFR in accordance with BS EN 50290-2

**Standard Put Up Length**  
305 meters

## Construction:

<b>Conductors:</b>	Stranded Annealed Copper
<b>Flame Barrier:</b>	Mica Tape
<b>Insulation:</b>	Flame Retardant, Low Smoke, Zero Halogen (X-HF-110)
<b>Sheath:</b>	Flame Retardant, Low Smoke, Zero Halogen (HFS-110-TP)
<b>Voltage:</b>	450/750Volts
<b>Operating Temperature:</b>	-25° to +110° C
<b>Insulation Color:</b>	Red/White
<b>Sheath Color:</b>	Red
<b>Min Bending Radius:</b>	10 x Cable Diameter.
<b>Overall Screen:</b>	Aluminium/Polyester Laminate
<b>Drain Wire:</b>	Tinned Copper 7/0.25mm <sup>2</sup>
<b>Resistance Time</b>	120 mins



## STRANDED LOOSE TUBE AND SPIRAL SPACE® CABLES

“PONY Cables produces ordinary stranded loose tube cables, but it also has its own unique spiral space construction. The Advantages of the Spiral Space over a stranded construction are a higher crush strength and the ease and economy of installation work, especially of smaller fibre count cables.

## SINGLE-MODE FIBRES

Most cables made by PONY Cables have ITU-T G.652 standard single-mode fibres. The company produces this fibre in its optical fibre plant. Cables can also be supplied with G.655 non-zero dispersion shifted fibres.

Fibre type	Single-mode 10/125 G.652
PONY Cables designation	SM
Mode field diameter MFD tolerance	9.1 - 9.3 $\mu\text{m}$ nominal $\pm 0.4 \mu\text{m}$
Cladding diameter	12.5 $\pm 1 \mu\text{m}$
Mode field concentricity error	$\leq 0.8 \mu\text{m}$
Cut-off wavelength	1180 nm $\leq \lambda_c \leq 1320 \text{ nm}$
Attenuation 1t 1310 nm at 1550 nm	$\leq 0.38 \text{ dB/km}$ $\leq 0.25 \text{ dB/km}$
Zero dispersion wavelength	1300 nm $\leq \lambda_0 \leq 1324 \text{ nm}$
Chromatic dispersion at 1288-1339 nm	$\leq 3.5 \text{ ps/(nm*km)}$
Chromatic dispersion at 1550 nm	$\leq 18 \text{ ps/(nm*km)}$
Dispersion slope at $\lambda_0$	$\leq 0.092 \text{ ps/(nm}^2\text{*km)}$
Coating diameter	235 $\mu\text{m} \leq d \leq 250 \mu\text{m}$
Cladding/coating concentricity error	$\leq 12.5 \mu\text{m}$
Proof test level	$\leq 1.0\%$

## COLOUR CODING OF FIBRES

PONY Cables usually applies a standard 6- or 12-colour system to the colour coding of fibres. An alternative 4- or 8-colour system is also available.

Fiber	Standard 6	Standard 12	Optional 4	Optional 8
1	Blue	Blue	Blue	Blue
2	White	White	White	White
3	Yellow	Yellow	Yellow	Yellow
4	Green	Green	Red	Green
5	Grey	Grey		Grey
6	Red	Orange		Orange
7		Brown		Brown
8		Turquoise		Red
9		Black		Red
10		Violet		
11		Pink		
12		Red		

The colour coding of the stranded tubes and Spiral Space fibre bundles follows the same sequence.

## MULTIMODE FIBRES

PONY Cables can also supply cables and cords with multimode fibres.

Fibre type	Multimode 50/125	Multimode 62.5/125
PONY cables designation	GI	GK
Core diameter	50 $\pm 3 \mu\text{m}$	62.5 $\pm 3 \mu\text{m}$
Cladding diameter	125 $\pm 3 \mu\text{m}$	125 $\pm 2 \mu\text{m}$
Numerical aperture	0.2	0.275
Attenuation at 850 nm at 1300 nm	dB/km 2.7 0.9	dB/km 3.5 1.0
Bandwidth at 850 nm at 1300 nm	MHz*km 400- 1000 600- 1500	MHz*km 160-200 200-600



## DIRECT BURIED CABLE



A metallic directly buried cable with two steel strength members in the PE sheath and a steel tape armouring over a strong, jelly-filled Spiral Space® core. The cable is designed primarily to be directly ploughed into the ground. Its crush resistance is excellent. It is good as a long-distance backbone cable or for a distribution cable in metropolitan access networks.

Fibres	4-12	16-36	40-64	72-96
Cable diameter / mm	4-12	15	16	17
Weight / kg / km	190	215	240	270

Allowable pulling force: 2.7 kN standard, 5 kN common alternative Crush strength: 5 kN/100 mm Minimum bending radius: 20D stressed / 10D unstressed

## AERIAL CABLE

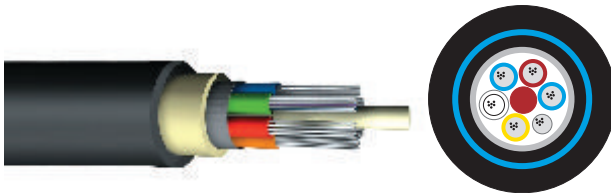


Self-supporting aerial cable with a steel messenger wire and a non-metallic stranded loose tube optical unit.

Fibres	6-30	36-60	96
Cable diameter / mm	11.5*22	12*22.5	15*26
Weight / kg / km	240	260	310

Allowable tension: 6 kN standard, 10Kn optional Crush strength: 2 kN/100 mm Minimum bending radius: 300 mm stressed

## INDOOR/OUTDOOR CABLE



A semi-dry indoor/outdoor cable with a flame-retardant halogen-free and UV-resistant sheath over jelly-filled loose tubes SZ-stranded dry around a non-metallic strength member.

Fibres	4-12	16-36	40-64	72-96
Cable diameter / mm	4-12	15	16	17
Weight / kg / km	190	215	240	270

Allowable pulling force: 2.7 kN Crush strength: 2 kN/100mm Minimum bending radius: 20D stressed / 10D unstressed Flame retardancy tested to IEC 332-1

## INDOOR CABLE



A non-metallic indoor cable with a flame-retardant halogen-free sheath over a dry Spiral Space® core.

Fibres	6-30	36-60	96
Cable diameter / mm	11.5*22	12*22.5	15*26
Weight / kg / km	240	260	310

Allowable pulling force: 0.5 kN Crush strength: 2 kN/100mm Minimum bending radius: 20D stressed / 10D unstressed Flame retardancy tested to IEC 332-1

## PVC INSULATED CABLES

**450/750V Single Core  
PVC Insulated, Non-Sheathed Cable  
CU/PVC**

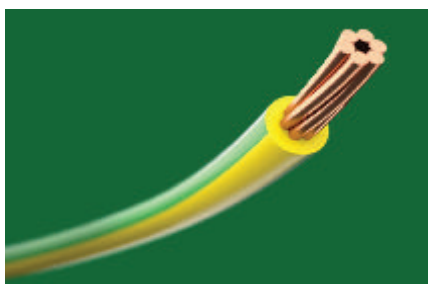
### Application

This cable is used in light fitting, switching and control equipment. It can be installed in cable ducts, on cable trays, PVC Conduits, etc.

### Product Discription:

<b>1. Construction:</b> Plain Annealed Copper, PVC insulated Cable.	<b>4. Insulation Color:</b> Brown, Black, Grey, Blue, Green/Yellow or as per order
<b>2. Voltage Rating:</b> 450 / 750V	<b>5. Conductor Material:</b> Copper
<b>3. Operating Temperature:</b> 70°C	<b>6. Package:</b> 90 Meter

Conductor			Insulation	Approx Overall Dia.	Approx. Weight
Normal Area	No./Dia. Of Strand	Approx Dia.	Thickness		
(mm <sup>2</sup> )	(no./mm)	(no./mm)	(mm)	(mm)	(kg/km)
1.5	1/1.38	1.38	0.70	2.90	20
1.5	7/0.53	1.59	0.70	3.10	22
2.5	1/1.78	1.78	0.80	3.40	32
2.5	7/0.67	2.01	0.80	3.70	34
4	7/0.85	2.55	0.80	4.30	50
6	7/1.04	3.12	0.80	4.80	70
10	7/1.35	4.05	1.0	6.0	120
16	7/1.70	5.10	1.0	7.0	180
25	7/2.14	6.42	1.20	9.0	280
25	19/1.53	7.65	1.20	10.10	380
50	19/1.78	8.90	1.40	12.0	500
70	19/2.14	10.70	1.40	13.70	715
95	19/2.52	12.60	1.60	16.00	990
120	37/2.03	14.21	1.60	17.50	1,220
150	37/2.25	15.75	1.80	19.50	1,500



# FLEXIBLE POWER CABLES

**300/500V 2 Core ~ 4 Core  
PVC Insulated, High Flexible & PVC Sheathed Cable  
CU/PVC/PVC**

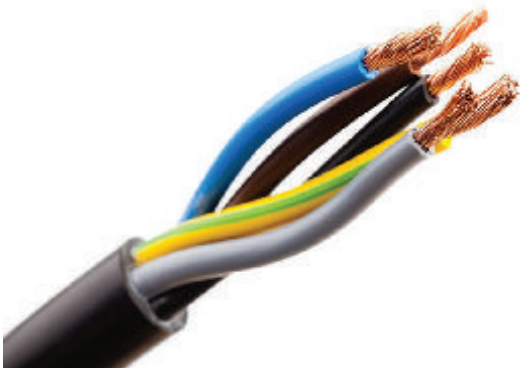
## Application

The cable is primarily used for main power supply. It can be installed in cable ducts, on cable trays, on cables ladders and in cable trunking. For household appliances under medium mechanical stresses, also in damp and wet conditions.

## Product Discription:

- |  |   |
|--|---|
| <b>1. Construction:</b><br>Plain Annealed Copper, PVC insulated, Unarmoured, PVC Sheathed Cable. | <b>4. Insulation Color:</b><br>2-Core: (Blue & Brown)<br>3-Core: (Blue/Brown/Yellow & Green)<br>4-Core: (Grey/Black/Brown/Yellow & Green) |
| <b>2. Sheath Color:</b><br>Black   | <b>5. Conductor Material:</b><br>Copper   |
| <b>3. Operating Temperature:</b><br>70°C   | <b>6. Package:</b><br>90 Meter  |

No. of Core	Conductor		Insulation		Sheath	
	Construction (mm)	Section (mm)	Material	Thickness (mm)	Material	Thickness (mm)
2 Core x 0.75mm <sup>2</sup>	25 / 0.19	0.75	PVC	0.6	PVC	0.8
2 Core x 1.5mm <sup>2</sup>	50 / 0.19	1.5	PVC	0.7	PVC	0.8
2 Core x 2.5mm <sup>2</sup>	84 / 0.19	2.5	PVC	0.8	PVC	1.0
2 Core x 4mm <sup>2</sup>	58 / 0.29	4	PVC	0.8	PVC	1.1
2 Core x 6mm <sup>2</sup>	84 / 0.3	6	PVC	1	PVC	1.3
2 Core x 10mm <sup>2</sup>	80 / 0.4	10	PVC	1.2	PVC	1.5
3 Core x 0.75mm <sup>2</sup>	25 / 0.19	0.75	PVC	0.6	PVC	0.8
3 Core x 1.5mm <sup>2</sup>	50 / 0.19	1.5	PVC	0.7	PVC	0.9
3 Core x 2.5mm <sup>2</sup>	84 / 0.19	2.5	PVC	0.8	PVC	1.0
3 Core x 4mm <sup>2</sup>	58 / 0.29	4	PVC	0.8	PVC	1.1
3 Core x 6mm <sup>2</sup>	84 / 0.3	6	PVC	1	PVC	1.3
3 Core x 10mm <sup>2</sup>	80 / 0.4	10	PVC	1.2	PVC	1.5
4 Core x 0.75mm <sup>2</sup>	25 / 0.19	0.75	PVC	0.6	PVC	0.8
4 Core x 1.5mm <sup>2</sup>	50 / 0.19	1.5	PVC	0.7	PVC	0.9
4 Core x 2.5mm <sup>2</sup>	84 / 0.19	2.5	PVC	0.8	PVC	1.0
4 Core x 4mm <sup>2</sup>	58 / 0.29	4	PVC	0.8	PVC	1.1
4 Core x 6mm <sup>2</sup>	84 / 0.3	6	PVC	1	PVC	1.3
4 Core x 10mm <sup>2</sup>	80 / 0.4	10	PVC	1.2	PVC	1.5



## XLPE - INSULATED CABLES

600/1000V 2 Core ~ 5 Core

XLPE Insulated, Unarmoured & Armoured, PVC Sheathed Cable  
 CU/XLPE/PVC or CU/XLPE/PVC/SWA/PVC

### Application

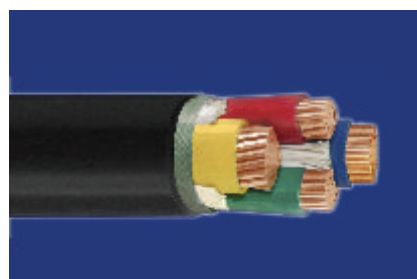
The cable is primarily used for main power supply. It can be installed, on cable trays, on cables ladders and in cable trunking.

### Product Discription:

- |  |   |
|--|---|
| <p><b>1. Construction:</b><br/>         Plain Annealed Copper, XLPE insulated, Unarmoured &amp; Galvanized Steel Wires Armoured, PVC Sheathed Cable.</p> <p><b>2. Sheath Color:</b><br/>         Black</p> <p><b>3. Operating Temperature:</b><br/>         90°C</p> | <p><b>4. Insulation Color:</b><br/>         2-Core: (Blue &amp; Brown)<br/>         3-Core: (Brown, Black &amp; Grey)<br/>         4-Core: (Brown, Black, Grey &amp; Blue)<br/>         5-Core &amp; Above: (Brown, Black, Grey, Blue, Green / Yellow) or as per order</p> <p><b>5. Conductor Material:</b><br/>         Copper</p> <p><b>6. Package:</b><br/>         90 Meter</p> |
|--|---|

### 2 - Core

Conductor		Unarmoured Cable		Armoured Cable	
Nominal Area	Insulation Thickness	Approx Overall Dia.	Approx. Weight	Approx Overall Dia.	Approx. Weight
(mm <sup>2</sup> )	(no./mm)	(mm)	(kg/km)	(mm)	(kg/km)
1.5	0.7	10.1	130	14.5	325
2.5	0.7	11.0	160	15.5	400
4	0.7	12.0	200	16.5	475
6	0.7	13.10	260	17.5	570
10	0.7	16.0	380	20.5	800
16	0.7	18.0	480	22.9	1050
25 (cs)	0.9	21.20	709	26.7	1471
35 (cs)	0.9	23.40	925	29.0	1762
50 (cs)	1.0	26.80	1214	32.4	2150
70 (cs)	1.1	30.40	1675	36.3	2749
95 (cs)	1.2	34.0	2244	41.2	3776
120 (cs)	1.4	37.0	2799	44.2	4435
150 (cs)	1.6	41.0	3426	48.2	5222





# XLPE - INSULATED CABLES

## 3 - Core

Conductor	Insulation	Unarmoured Cable		Armoured Cable	
		Nominal Area	Thickness	Approx Overall Dia.	Approx. Weight
(mm <sup>2</sup> )	(no./mm)	(mm)	(kg/km)	(mm)	(kg/km)
1.5	0.7	10.5	145	15.0	390
2.5	0.7	11.4	190	16.0	435
4	0.7	12.8	250	17.0	550
6	0.7	14.00	320	18.5	660
10	0.7	16.9	480	21.7	900
16	0.7	19.0	645	24.0	1260
25 (cs)	0.9	22.50	968	28.0	1772
35 (cs)	0.9	25.00	1278	30.5	2175
50 (cs)	1.0	28.50	1688	34.5	2700
70 (cs)	1.1	32.60	2365	40.0	3805
95 (cs)	1.1	36.5	3197	44.0	4831
120 (cs)	1.2	39.7	3982	47.5	5772
150 (cs)	1.4	44.0	4872	53.2	7344

## 4 - Core

1.5	0.7	11.5	180	15.5	430
2.5	0.7	12.5	230	16.5	495
4	0.7	14.0	315	18.0	610
6	0.7	15.00	395	20.0	810
10	0.7	18.4	590	23.2	1120
16	0.7	21.4	860	27.0	1480
25 (cs)	0.9	22.00	1200	27.5	2000
35 (cs)	0.9	25.00	1600	30.5	2400
50 (cs)	1.0	28.00	2100	34.0	3100
70 (cs)	1.1	32.00	3000	39.5	4440
95 (cs)	1.1	37.0	4100	44.0	5700
120 (cs)	1.2	42.0	5160	50.0	7386
150 (cs)	1.4	46.0	6300	54.5	8770

## 5 - Core

1.5	0.7	12.8	208	16.8	455
2.5	0.7	13.9	263	17.8	540
4	0.7	15.4	355	20.0	795
6	0.7	16.90	465	21.8	956
10	0.7	19.8	700	24.8	1272
16	0.7	22.5	1020	28.6	1845
25 (cs)	0.9	27.00	1530	32.6	2500
35 (cs)	0.9	30.00	2035	36.2	3140
50 (cs)	1.0	34.50	2720	41.5	4300
70 (cs)	1.1	39.60	3825	46.8	5585
95 (cs)	1.1	45.0	5185	53.0	7675
120 (cs)	1.2	49.2	6320	57.6	9125
150 (cs)	1.4	54.5	7800	63.0	10824



## LOUD SPEAKER CABLES

**PONY cables is a high performance speaker cable designed to compliment today's media & sound devices.**

Speaker wire is a passive electrical component described by three properties which determine it's performance: Resistance, Capacitance & Inductance.

### Application

Design for high-definition sound, meeting all the standard

## Standard Audio Cable

### Construction

Item	A:Q.L	Description	
<b>A Conductor</b>	NO/mm BC 0.12x20x7	BC0.12(+0.001/-0.008) 140(+/-4)	Stranded bare copper
<b>B Conductor</b>	NO/mm TC 0.12x20x7	TC0.12(+0.001/-0.008) 140(+/-4)	Stranded Tinned Cooper
<b>Insulation</b>	NO/mm 4.00 x 8.00	4.00 (+/-0.18) 8.99 (+/-0.30)	Transparent PVC Insulation

### Characteristics

Item	Description	Description
<b>Cond. Res.</b>	20°C, Conductor DC Resistance	<1.31 /100M
<b>Insul. Res.</b>	20°C, Insulation Resistance	> 200M M
<b>Rated Tem.</b>		60°C
<b>Rateo Voltage</b>		30°C

## Commercial Audio Cable

### Specification

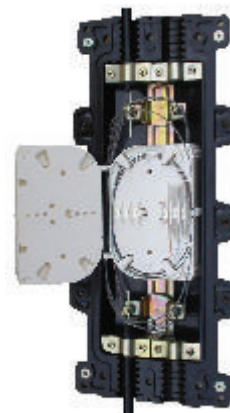
<b>Conductor Count:</b>	2 CONDUCTORS
<b>Conductor Material:</b>	BARE COPPER
<b>Conductor Size:</b>	22 AWG (AMERICAN WIRE GAUGE)
<b>Conductor Type:</b>	STRANDED CONDUCTOR
<b>Insulation Material:</b>	PP-POLYPROPYLENE
<b>Jacket Color:</b>	GRAY (SLATE)
<b>Jacket Material:</b>	PVC-POLYVINYL CHLORIDE
<b>RoHS Compliant:</b>	YES
<b>Screen/Shield Type:</b>	FOIL SHIELDED - ALUM/MYLAR
<b>Shield Construction:</b>	OVERALL SHIELD & DRAIN
<b>Temperature Rating:</b>	75 °C
<b>Voltage Rating:</b>	300 VOLTS AC



## UNIVERSAL JOINT CLOSURES

XOK-series joint closures are pressure-tight closures made in stainless steel. They can be installed on poles, in manholes or directly buried. There are special versions of the series (VXOK) for the jointing of OPGW.

	XOK 1030	XOK 10304	XOK 10305	XOK 10307
<b>Cable entrances</b>	2	4	3	3
<b>Splice trays</b>	1 to 4	1 to 4	1 to 4	1 to 4
<b>Splices</b>	24 to 96	24 to 96	24 to 96	24 to 96



Bigger joint closures with capacity for up to 168 splices in the basic version and extension kits for even more splices are also available.

## TERMINATION BOXES

PK-series termination boxes are used wall mounted in dry indoor conditions to connect outdoor cables to indoor cables or jumpers.



## ODF MODULES

ORP-100 is a fibre optic distribution panel for 19" racks, with capacity for 3 cables, 48 splices and 24 adapters in the patch panel, and a module height of 134 mm. ORP-4000 is a modular, easily expandable cross-connection system with capacity for up to 1488 fibres in a single cabinet.



## JUMPERS AND PIGTAILS

Jumpers and pigtails are usually delivered with FC/PC, SC or ST connectors, but other types are also available. Type FMS is a 3 or 2 mm single cord jumper or pigtail, type FIB is a pigtail used inside a termination box or an ODF module.



## TELEPHONE DISTRIBUTION FRAME

### Specifications

#### Distribution Box:

- Range: 10 Pairs to 1,000 Pairs
- Mounting plate: Powder coated similar To RAL2000 or galvanized
- Paint finish: Both externally and internally
- Protected with epoxy polyester coating
- IP rate: IP66

#### LSA Module:

- Flawless range
- Internal diameter of connection wire: 0.4–0.6 mm
- Port: 5 pair, 8 pair, 10 pair
- Environment condition: (–40°C to 90°C)
- Atmospheric pressure: 70–106KPa
- Plastic Parts: PBT–V0 UL94 or ABS.
- Size: 104\*21\*40mm



## PATCH PANEL

### Description

We offer flex patch panel which have a safety listing of ACA, Bi-national (UL/CSA) Standard. These panels have indoor suitability, and 24/48 connector capacity. These black colored patch panels can be availed in standard height–1,720 (in.), weight 19,000 (in.) and depth 4000(in.). Manufactured using quality Panel and Bezel steel (UL94V–0), our patch panels have a flush and rear access.

### Specifications

- Solid and reliable terminations for copper cabling, featuring gold-plated jack contacts
- Connectors are color-coded in groups of six to simplify cable identification
- Compatible with both 110 and krone punch-down tools
- Supports 22 to 26AWG stranded and solid wire
- Fast and gigabit Ethernet network applications
- Connects RJ45 ports to network
- Meets 19-inch rack-mount standards



## PATCH CABLES Cat 5e

Specification	Material	Colour	Length	Pinout
22AWG Standard	CU	Grey	1mtr	568A-568A
			3mtr	568B-568B
				568A-568B



## PATCH CABLES Cat 6

Specification	Material	Colour	Length	Pinout
22AWG Standard	CU	Grey	1mtr	568A-568A
24AWG Standard			3mtr	568B-568B
				568A-568B

6P4C, 6P6C, 8P8C Modular unshielded Jacks  
 Consist of 15u"30u"50u" Gold Plated Brass Contacts  
 Housing Materials & PCB Board are Flame Retardant  
 Jacks Easily Snap into Wall Plates, SMB and Black Patch Panel  
 TIA/EIA 568 A/B  
 Available colors: WH



## CAT5E/ CAT6 180 DEGREE H-Style Keystone jack

P-136 Cat5e , P-136 Cat6

Modular unshielded Jacks  
 Horizontal H-Style Enhanced 180 Jacks  
 Consist of 15u", 30u" , 50u", Gold Plated Brass Contacts  
 Housing Materials & PCB Board are Flame Retardant  
 U-Style Jacks Easily Snap into Wall Plates, SMB and Blank Patch Panel  
 TIA/EIA 568 A/B  
 Available Colors: WH



## FACE PLATES

**PONY flush-mount keystone face plates to fulfill your complicated station installation requirements.**

Single/multi gang Multimedia Keystone Face Plate, 115x70mm, White/Ivory

Complete with instructions and fixing screws  
Desing to fit all depths and pattress boxes

P-135 1-Port Face plate

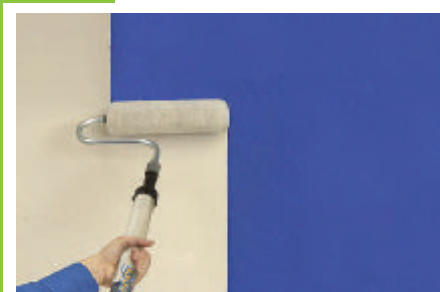
P-135 2-Port Face plate



**Single I/o TV**  
1-Port P-133TV

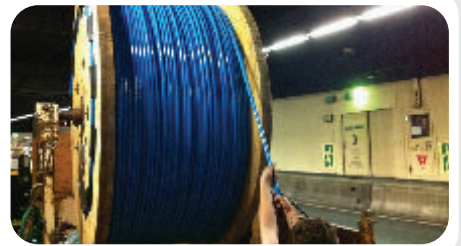


**Single I/o Telephone**  
1-Port P-134TV



### Paint Guard

This plastic guard protects the accessories while painting the wall



Certified by:





## PONY CABLES

### **Karachi Office:**

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