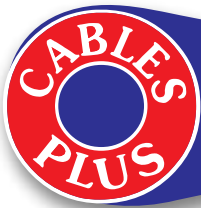




SPECIALTY CABLES
PLUS
ACCESSORIES
PLUS
DATA AND ELECTRICAL



www.cablesplus.com.au



INTRODUCTION

Cables Plus is one of Australia's leading suppliers of cables, connectors and accessories.

Inside this catalogue you will find a range of products used in the **electrical, computer, audio, video, industrial control, automation and instrumentation sectors.**

The catalogue represents some of the 'standard' products we provide. It is important to note that if a particular item is not shown here, simply call our office where our helpful staff will assist you to source a suitable cable, connector or accessory.

Our experienced buyers evaluate the products we stock to ensure that only the highest quality is supplied to you at a competitive price.

Cables Plus also offers a design and manufacture service to suit any special requirements.

3 Cables Plus trucks...

- Reliable delivery.

Experienced staff...

- Great product knowledge.

Independent...

- Flexible to meet your needs.

City central warehouses...

- We cover all of Victoria & Tasmania

Cable cut to length...

- In most cases we will cut to your requirement.

As you flip through our latest catalogue **lookout for the VIP's...**

Very
Important
Products

VIP

We are proud to say they are either **New or Difficult To Source** elsewhere.

Cables Plus carries a huge range of special cables....
and if we don't stock it, we can make or find it for you...

Manufacture Specialty Cables **High Voltage** **Aluminium**

One of the most exciting VIP's...

Flexible Screened Cable

- **Variable Speed Drives (VSD)**
- **Used where electrical interference distorts signal transmission in electric motors**
 - **PVC Transparent Sheath**
(Black available on request)

See page 23!

Cables Plus now has a larger range of Fibre Optic products and can manufacture specialty Fibre Optic leads to suit your needs.

Fibre Optic Cable Cut To Length **Fibre Leads** **Fibre Accessories**

Data

- Multiwire - Screened (RS232)
- Multipair - Screened (RS422)
- UTP & STP Paired LAN Cable Category 5e/6
- Outdoor Category 5e/6

Telephone

- Flat Modular Telephone
- Jumper Wire
- Telephone Cable - Internal
- Telephone Cable - External Jelly Filled

Coaxial

- Cable TV
- Data RGB 75 OHM Monitor Cable
- RG Series

Marine & Automotive

- Twin Sheath Auto
- Single Core Auto
- Figure 8 Auto
- Marine (Tin Copper)
- Trailer Flex

Flexible Signal Cables

- Braided Screen

Garden & Security

- Garden Cable
- Black - PVC
- Multipair Individual Screen (8723 equiv)

Security

- Figure 8 Connecting Wires
- Security

Instrumentation

- Individually & Overall Screened
- Overall Screened Triples
- Instrument Cables

6 - 8

6
7
8
8

9 - 11

9
9
10
11

12 - 13

12
13
13

14

14
14
14
14
14
14

15

15

16

16
16
16
16

17

17
17

18 - 19

18
18
19

Heat Resistant Silicone

- Stranded Hook-up Wires V150°
- Stranded Multicore V180°

Rubber

- Control & Remote Control Multiwire

Flexible Control

- Flex Control Cable PVC/PVC Grey Sheath
- Screen VSD (Variable Speed Drive)
- Braided Screen Flexible

Power Control

- Polyurethane Power & Control
- Power Chain Cable

Single Core Flex

- Connecting Wires

Flexible Power/Welding

- Single Double Insulated NBR/NBR 0.6/1KV
- Twin Flex

Flexible Multicore

- Flexible Cables

Building Wires

- Fire rated Cable
- PVC Single Core
- TPS
- SDI
- Orange Circular 2 Core
- Orange Circular 3 Core
- Orange Circular 4 Core

Optical Fibres

- External Optical Fibre
- Loose Tube - Single Mode / Multi Mode
- Internal / External Optical Fibre
- Light Duty Riser Cable - Single / Multi Mode
- Internal Optical Fibre Cord

20

20
20

21

21

22 - 23

22
23
23

24

24
24

25

25

26

26
26

27

27

28 - 30

28
28
28
29
29
30
30

31 - 33

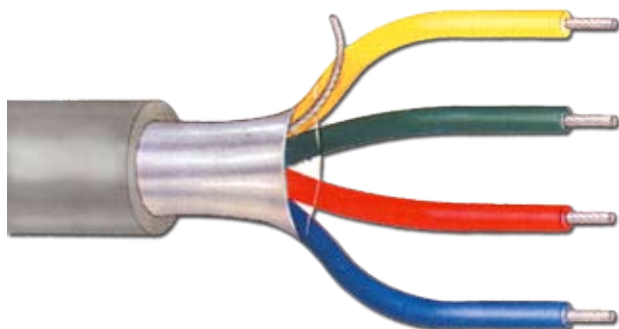
31
31
32
32
33

Cable Assemblies	34		
Cable Assemblies	34		
Network Patch Leads	35		
Category 5e & 6 Patch Leads	35		
Clipsal Network Products	36		
Krone Network Products	37		
Active Products	38 - 39		
5 Port Switch	38		
8 Port Switch	38		
24 Port Switch	38		
Broadband Router	38		
Media Converters Fibre Optic to UTP	39		
Uninterruptible Power Supplies	39		
Filters & Splitters	40		
ADSL Filters	40		
Category 5 Splitter	40		
Category 5 Coupler	40		
Category 5e Right Angle Coupler	40		
Category 5e Splitter	40		
Network Connectors	41		
RJ Modular Plugs	41		
Coaxial Connectors	41		
Coaxial Strain Relief Boots	41		
D - Subminiature Connectors	41		
Telephone Products	42		
Telephone Connectors	42		
Type C Tone Ringer	42		
Speaker	42		
Telephone Wall Plate	42		
Cable Joining Products	43		
Optic Fibre Cable Joint Enclosures	43		
Copper Cable Joint Enclosures	43		
3 Way Jelly Filled Connector	43		
2 Way Jelly Filled Connector	43		
Cable Pits	43		
Fibre Optic Patch Leads	44		
Duplex - Single or Multi Mode	44		
ST - ST 1m, 2m, 3m, 5m & 10m	44		
SC - SC 1m, 2m, 3m, 5m & 10m	44		
LC - LC 1m, 2m, 3m, 5m & 10m	44		
ST - SC 1m, 2m, 3m, 5m & 10m	44		
ST - LC 1m, 2m, 3m, 5m & 10m	44		
SC - LC 1m, 2m, 3m, 5m & 10m	44		
Fibre Optic Connectors	45		
SC Fibre Optic Connectors	45		
SC Through Adapters	45		
Rack Mounted Fibre Trays	45		
Wall Mount Fibre Box	45		
ST Fibre Optic Connectors	45		
ST Through Adapters	45		
Fusion Splice Tray	45		
Fusion Splice Protector	45		
		Testing Equipment	46
		'F' Set Cable Tester (CZ1000)	46
		Clipsal Cable Tester	46
		Buttinski Test Set	46
		Tools	47
		110 Tool	47
		'F' Coax Connector Tool	47
		Coax Stripper RG58 - RG59 - RG6	47
		Cable Sheath Stripper	47
		Jelly Filled Connector Tool	47
		RJ11 - RJ12 - RJ45 Crimper	47
		Cable End Stripper	47
		Coax Crimper	47
		Hallam Cabinets	48 - 49
		600 Wide Floor Standing Cabinets	48
		800 Wide Floor Standing Cabinets	49
		Hallam Accessories	50
		Fixed Shelves	50
		Cantilever Shelves	50
		Cable Tray	50
		Hallam Wall Cabinets	51
		Wall Cabinets	51
		Wall Brackets	51
		Hallam Power Rails	52 - 53
		Rack Power Distribution Manager	52
		Horizontal Power Distribution Rails	53
		Vertical Power Distribution Rails	53
		Speciality Cabinets	54
		Channel / Lab Racks	54
		File Server Cabinets	54
		Tele Shelves & Fans	55
		Telescopic Shelves	55
		Fan Trays	55

Multiwire - Screened (RS232)

Low Voltage - UL Approved Style 2464

Use	Data Cable RS232 (Unbalanced).
Sheath	Grey PVC - V75 Flame Retardant.
Conductor	Tinned Copper Wire.
Pack	100m or 500m Reels.
Colour Code	See table below.
Screen	Aluminium polyester laminate foil tape providing 100% shield earthed with tinned copper drain wire for ease of termination.



Description	Number Conductors	Conductors (mm)	Nominal O/D (mm)	Nominal Capacitance (PF/M)
4 Core	4	7 x 0.20	4.8	90
6 Core	6	7 x 0.20	5.5	90
8 Core	8	7 x 0.20	5.9	90
12 Core	12	7 x 0.20	6.9	90
18 Core	18	7 x 0.20	8.1	90
25 Core	25	7 x 0.20	9.3	90

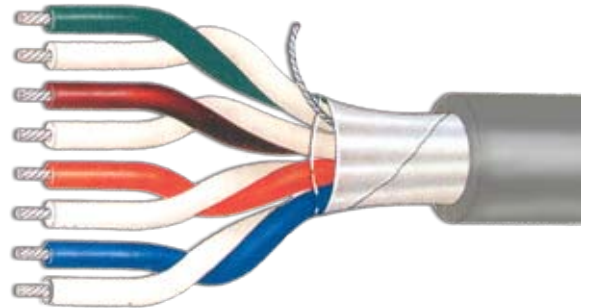
Colour Code

Wire	Colour	Wire	Colour	Wire	Colour	Wire	Colour
1	Red (R)	14	R/GN	27	GN/BK	39	W/BK
2	Blue (BL)	15	Y/R	28	O/GN	40	Y/GY
3	Green (GN)	16	W/R	29	GY/GN	41	Y/BK
4	Yellow (Y)	17	R/BK	30	Y/BN	42	GY/O
5	White (W)	18	R/BN	31	W/BN	43	GY/R
6	Black (BK)	19	Y/BL	32	BN/BK	44	GY/BK
7	Brown (BN)	20	W/BL	33	GY/BN	45	O/BN
8	Violet (V)	21	BL/BK	34	Y/V	46	O/BK
9	Orange (O)	22	O/BL	35	V/BK	47	GN/BN
10	Pink (P)	23	BL/GN	36	W/V	48	BL/BN
11	Turquoise (T)	24	GY/BL	37	W/O	49	P/BL
12	Grey (GY)	25	Y/GN	38	W/GY	50	P/O
13	R/BL	26	W/GN				

Multipair - Screened (RS422)

Low Voltage - UL Approved Style 2919

Use	Data Cable RS422 (Balanced Pair).
Sheath	Grey PVC - V75 Flame Retardant.
Conductor	Tinned Copper Wire.
Pack	100m or 500m Reels.
Colour Code	See table below.
Screen	Aluminium polyester laminate foil tape providing 100% shield earthed with tinned copper drain wire for ease of termination.



Description	Number Conductors	Conductors (mm)	Nominal O/D (mm)	Nominal Capacitance (PF/M)
1 Pair	2	7 x 0.20	5.2	50
2 Pair	4	7 x 0.20	5.9	50
3 Pair	6	7 x 0.20	6.2	50
4 Pair	8	7 x 0.20	6.7	50
6 Pair	12	7 x 0.20	7.8	50
8 Pair	16	7 x 0.20	8.4	50
10 Pair	20	7 x 0.20	9.8	50
12 Pair	24	7 x 0.20	10.2	50
18 Pair	36	7 x 0.20	12.2	50
25 Pair	50	7 x 0.20	14.1	50

Colour Code

Pair	Wire 1	Wire 2	Pair	Wire 1	Wire 2	Pair	Wire 1	Wire 2
1	White	Blue	9	Red	Brown	17	Yellow	Orange
2	White	Orange	10	Red	Grey	18	Yellow	Green
3	White	Green	11	Black	Blue	19	Yellow	Brown
4	White	Brown	12	Black	Orange	20	Yellow	Grey
5	White	Grey	13	Black	Green	21	Violet	Blue
6	Red	Blue	14	Black	Brown	22	Violet	Orange
7	Red	Orange	15	Black	Grey	23	Violet	Green
8	Red	Green	16	Yellow	Blue	24	Violet	Brown
						25	Violet	Grey

D

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E

UTP & STP Paired LAN Cable Category 5e/6

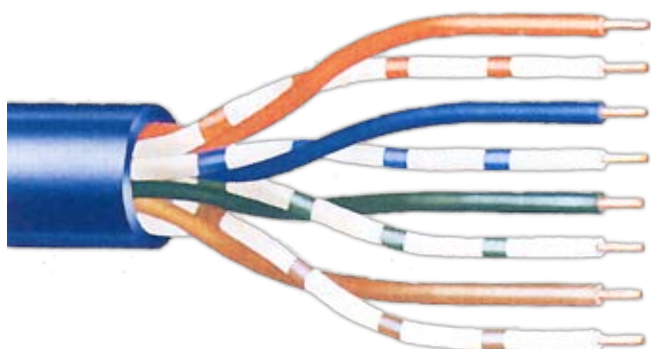
Cat 5e/6 LAN Cable

Use

Data communication networks to meet the requirements of EIA/TIA 563, ISO/IEC 1180, AS/NZS 3080 & ASIACIF 5008 Class E, AS1660.5.6.

Pack

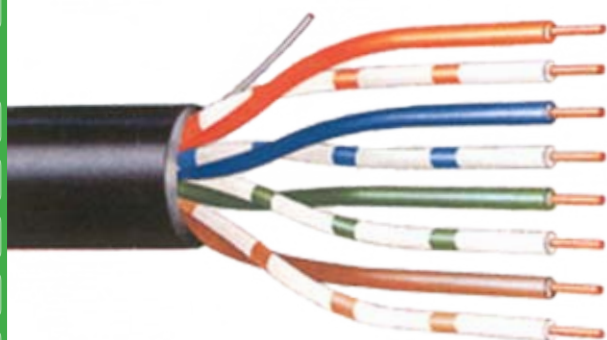
305m.



Cat. 5e/6 UTP

Technical Data	No. of Pairs	Characteristic Impedance @ 1-250MHz	Nom. O.D. (mm)	Max Cond. Resistance (Ohm/km)	Vel. Prop (%)	Mutual Capacitance (pt/100m)
Cat 6 UTP UL Verified	4	100 ohms	6.2	9.38	69	5.5
Cat 5e UTP UL Verified	4	100 ohms	5.2	9.5	70	5.6

Outdoor Category 5e/6



Cat. 5e/6 Outdoor Jelly Filled

Technical Data	No. of Pairs	Characteristic Impedance @ 1-250MHz	Nom. O.D. (mm)	Max Cond. Resistance (Ohm/km)	Vel. Prop (%)	Mutual Capacitance (pt/100m)
Cat 6 UTP UL Verified	4	100 ohms	6.88	8.9	71	46
Cat 5e UTP UL Verified	4	100 ohms	6.38	8.9	71	46

Jumper Wire

Use To 'jumper' and complete circuits in telecommunications networks.

Pack 250m

Description	Conductors (mm)	Area (mm ²)	Amperage	Nominal O/D (mm)
CP Jumper Wire - Red/White	1/0.5	0.2	0.5	1.7



Use Flat stranded telephone cable to suit RJ Modular plugs. Used as telephone patch and Fly leads. Yellow jacket used in controlling exit lighting systems.

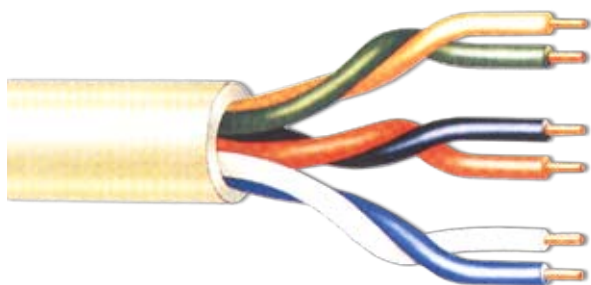
Pack 100m or 500m

Description	Jacket Colours Available	Conductors (mm)	Dimensions (Nom. mm)
2 Conductor	Ivory, Ash, Black	7/0.16	5.0 x 2.5
4 Conductor	Ivory, Ash, Black	7/0.16	5.0 x 2.5
6 Conductor	Ivory, Ash, Black	7/0.16	7.0 x 2.5
6 Conductor	Yellow (Exit Lighting)	7/0.16	7.0 x 2.5
8 Conductor	Ivory, Ash, Black	7/0.16	9.0 x 2.5
10 Conductor	Yellow, Ash, Black	7/0.16	10.7 x 2.5



Telephone Cable - Internal

VIIIP



Use	For connecting apparatus working on DC or voice frequency signals.
Sheath	PVC - V75, Cream for internal use.
Conductor	Plain Copper Wire V75 insulated.
Construction	Insulated wires twisted into pairs.
Standard	Category 3.
Pack	2 & 3 pair 305m. Other pair counts 500m.
Colour Code	See below.

Telephone cable of 10 pair & over, cut to length

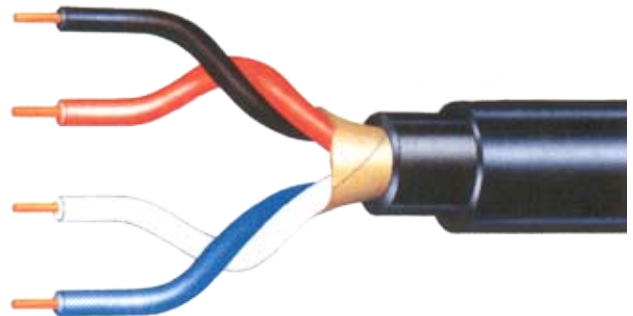
Description	Conductors (mm)	No. of Conductors	Insulation Thickness (mm)	Nominal O/D (mm)
2 Pair (1 Quad)	1/0.5	4	0.2	3.9
3 Pair	1/0.5	6	0.2	4.9
10 Pair	1/0.5	20	0.2	7.6
20 Pair	1/0.5	20	0.2	9.4
25 Pair	1/0.5	40	0.2	10.6
50 Pair	1/0.5	40	0.2	14.3
100 Pair	1/0.5	60	0.2	19.1

Colour Code

Pair Identification		Unit Identification	
Pair No.	Colours	Pair Range	Colours
1	White/Blue	1 to 10	Blue/White
2	White/Orange	11 to 20	Orange/White
3	White/Green	21 to 30	Green/White
4	White/Brown	31 to 40	Brown/White
5	White/Grey	41 to 50	Grey/White
6	Red/Blue	51 to 60	Blue/Blue
7	Red/Orange	61 to 70	Orange/Orange
8	Red/Green	71 to 80	Green/Green
9	Red/Brown	81 to 90	Brown/Brown
10	Red/Grey	91 to 100	Grey/Grey

Telephone Cable - External Jelly Filled

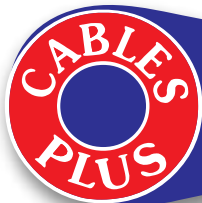
Use	For connecting apparatus working on DC or voice frequency signals in exposed environments or when underground in conduit.
Sheath	Black Polyethylene for most applications with the addition of nylon jacket for termite/ rat problem areas. Jelly filled.
Conductor	Plain Copper Wire Polyethylene insulated.
Construction	Insulated wires twisted into pairs. Cables greater than 10 pair, bunched into 10 pair units.
Pack	Up to 1000m drums.



Description	Conductors (mm)	No. of Conductors	Insulation Thickness (mm)	Nominal O/D (mm)
2 Pair	1/0.4	4	0.16	6.0
2 Pair	1/0.64	4	0.25	6.5
10 Pair	1/0.4	20	0.16	9.0
10 Pair	1/0.64	20	0.25	11.0
20 Pair	1/0.4	40	0.16	11.0
20 Pair	1/0.64	40	0.25	15.0
30 Pair	1/0.4	60	0.16	12.2
50 Pair	1/0.4	100	0.16	14.9
100 Pair	1/0.4	200	0.16	20.8

Colour Code (10 Pair Units)

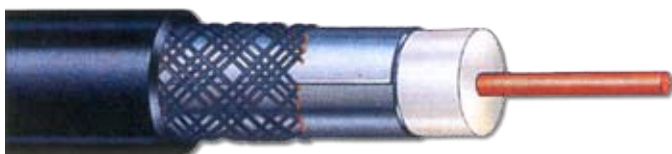
Pair No.	Wire 1	Wire 2	Unit No.	Unit Binder
1	White	Blue	1	Blue
2	White	Orange	2	Orange
3	White	Green	3	Green
4	White	Brown	4	Brown
5	White	Grey	5	Grey
6	Red	Blue	6	Blue/Grey
7	Red	Orange	7	Orange/White
8	Red	Green	8	Green/White
9	Red	Brown	9	Brown/White
10	Red	Grey	10	Grey/White



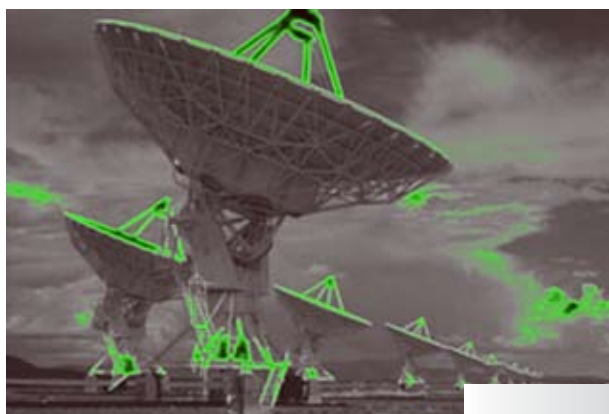
COAXIAL

Cable TV

Use	For connection of television services.
Construction	Double Shielded Alfoil/Albraid, Premium Quality, Foam Dielectric, Superior Noise Attenuation.
Pack	305m & 500m.



Cable Type	Description
RG6 Flooded	60% Braid Flooding Compound - U/ground Installations
RG6 Quad Shield	100% Double Braid/Foil 7.49mm Outer Diameter (O/D)
RG11 Flooded	60% Braid Flooding Compound - U/ground Installations 10.34 O/D
RG11 Quad Shield	100% Double Braid/Shield 10.72mm O/D



R F Cables & Connectors

Use	Microwave & Cellular systems
LDF4-50	1/2" 50 Ohm Foam Dielectric Coax
LDF5-50	7/8" 50 Ohm Foam Dielectric Coax
LDF6-50	1 1/4" 50 Ohm Foam Dielectric Coax
LMR-400	50 Ohm Flexible Low Loss Communications Cable
LMR-600	50 Ohm Flexible Low Loss Communications Cable
LMR-900	50 Ohm Flexible Low Loss Communications Cable

CONNECTORS TO SUIT - AVAILABLE ON REQUEST

RG Series

Use	High frequency signal transmission.
Sheath	Black PVC V-75 for UV Resistance.
Conductor	Plain Copper (C). Tinned Copper (TC). Copper Clad Steel - Copper Weld (CW).
Dielectric	Polyethylene (Type 1). Air-space (Type 2). Cellular Polyethylene (Type 3).
Screen	Plain Copper braid (Type A). Tinned Copper braid (Type B). Aluminium Polyester laminate tape (Type C). Combination of types B & C (Type D).
Pack	100m or 500m Reels.

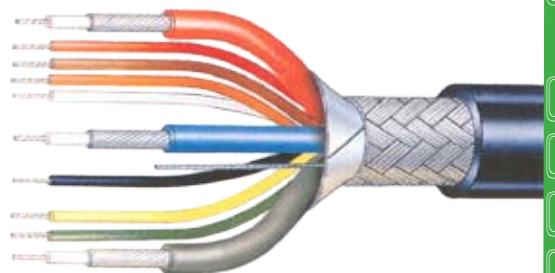


To Mil Spec MIL-17-F

Ohms	Cable Type	Conductors (mm)	O/D (mm)	Cap. (PF/M)	Attenuation @ 200 MHz (dB/100m)	Screen Type	Diel. Type
75	RG59	1/0.6 (C)	6.2	68	16	A	1
75	RG11	7/0.4 (C)	10.3	68	11	A	1
50	RG58	19/0.18 (TC)	5	100	23	B	1
75	RG59	1/0.58 (CW)	6.2	67	16	A	1
50	RG213	7/0.71 (C)	10.3	100	10	A	1
75	AIRSPACE	1/0.80 (C)	6.2	69	14	A	2
100	TWIN IBM	2 X 7/0.32 (TC)	8.3	51	21	B	1
75	RG6	1/1.02	6.5	53.1	19.2	D	3
Other styles							
50	THIN ETHERNET - BELDEN 9907						
75	RG59 + 24/0.20 Figure 8						
75	RG59 + 6 x 16/0.20 + 2 x 1.5						

Data RGB 75 OHM Monitor Cable

Use	For VGA colour monitors or equivalent.
Construction	3 Coaxial cables with stranded tinned copper central conductor 7/0.12mm (28 AWG) foam polyethylene insulated, individually shielded with spiralled tinned copper conductors, PVC insulated, and overall shielded with aluminium/mylar foil with a 7/0.20mm (24 AWG) drain wire and 85% tinned copper braid, black PVC (saw toothed) sheathed overall.



Coaxial Nom. Impedance 75 Ohm
Colour Code: Red, Blue, Grey
Wires: White, Yellow, Red, Orange, Green, Black, Brown

Twin Sheath Auto

Also suitable for
AUDIO applications.
Great for long runs.



Construction

Plain Copper conductor, insulation Black V75 PVC. Maximum voltage 100V DC & 32V DC.

Stranding No./Dia. (mm)	Amp Rating	Nom. Area (mm ²)	Nominal O/D (mm)	Insulation Thickness
16/0.30	10	1.13	6.6 x 3.8	0.6
26/0.30	15	1.85	7.1 x 4.1	0.6
41/0.32	27	3.25	8.6 x 5.0	0.6
65/0.30	31	4.59	5.8 x 9.9	0.6

Single Core Auto

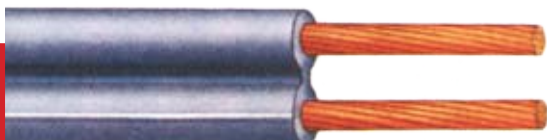


Construction

Bare Copper conductor, insulation V75 PVC .

Industry Standard Sizes	Stranding No./Dia. (mm)	Amp Rating	Nominal O/D (mm)
3m ²	16/0.30	10	2.8
4m ²	26/0.30	15	3.2
5m ²	41/0.30	27	3.8
6m ²	65/0.30	31	4.3

Figure 8 Auto



Construction

Bare Copper conductor, insulation V75 PVC in Figure 8 configuration.

Industry Standard Sizes	Stranding No./Dia. (mm)	Amp Rating	Nom. Area (mm ²)	Nominal O/D (mm)
3m ²	16/0.30	10	1.13	2.8 x 6.0
4m ²	26/0.30	15	1.84	3.2 x 6.6

Conductor colours Red & Black, other available on request

Marine (Tin Copper)

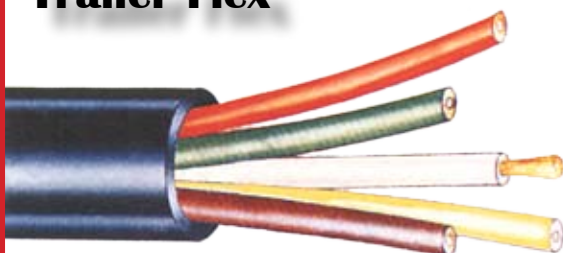


Construction

Tin Copper conductor to reduce corrosion.

Stranding No./Dia. (mm)	Amp Rating	Nom. Area (mm ²)	Nominal O/D (mm)	Insulation Thickness
26/0.30	15	1.84	4.0 x 6.7	0.4
65/0.30	31	4.59	5.8 x 9.9	0.6

Trailer Flex



Construction

Plain Copper conductor, insulation V75 PVC Black.

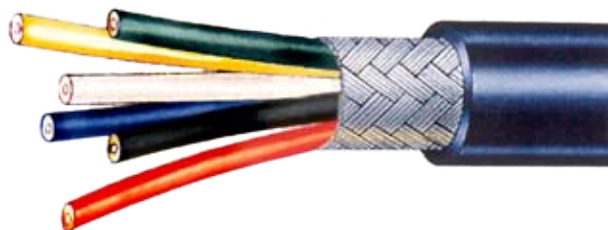
No. of Cores	Stranding No./Dia. (mm)	Amp Rating	Nom. Area (mm ²)	Nominal O/D (mm)	Insulation Thickness
5	9/0.30	5	0.64	6.2	0.4
5	16/0.30	10	1.13	7.2	0.4
7	9/0.30	5	0.64	7.0	0.4
7	16/0.30	10	1.13	8.2	0.4

Other sizes available on request

Braided Screen

Use	For the interconnection of instruments, electrical equipment, microphone & audio equipment.
Sheath	Black PVC - V75.
Conductor	Tinned Copper Wire.
Insulation	PVC - V75.
Screen	Tinned Copper Braid.
Pack	100m or 500m Reels.
Colour Code	Microphone cable pictured right. See chart below for general code.

Not to be connected
to mains power!



Colour Code

Wire No.	Colour	Wire No.	Colour	Wire No.	Colour
1	Red	14	Red/Green	27	Green/Black
2	Blue	15	Yellow/Red	28	Orange/Green
3	Green	16	White/Red	29	Grey/Green
4	Yellow	17	Red/Black	30	Yellow/Brown
5	White	18	Red/Brown	31	White/Brown
6	Black	19	Yellow/Blue	32	Brown/Black
7	Brown	20	White/Blue	33	Grey/Brown
8	Violet	21	Blue/Black	34	Yellow/Violet
9	Orange	22	Orange/Blue	35	Violet/Black
10	Pink	23	Green/Blue	36	White/Violet
11	Turquoise	24	Grey/Blue		
12	Grey	25	Yellow/Green		
13	Red/Blue	26	White/Green		

Number Conductors	Conductor (mm)	Nom. Area (mm ²)	Nominal O/D (mm)	Conductor Colour
2	16/0.20	0.5	5.0	Red, Blue
3	16/0.20	0.5	5.8	Red, Blue, Green
4	16/0.20	0.5	6.1	Red, White, Yellow, Green
6	16/0.20	0.5	7.2	Red, White, Yellow, Green, Black, Blue
10	16/0.20	0.5	9.1	See table below
12	16/0.20	0.5	9.3	See table below
18	16/0.20	0.5	10.7	See table below
25	16/0.20	0.5	12.6	See table below

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Garden Cable Black - PVC



Use

Suitable for outdoor use.
Wiring of garden lights, outdoor speakers and low voltage pumps.

Sheath

Black PVC - V75.

Conductor

Untinned Plain Copper.

Pack

100m or 500m Reels.

Wire Size (mm)	Area (mm ²)	Nominal O/D (mm)
1.3	-	4.0 x 8.6
2.5	26/0.40	4.5 x 9.0
4.0	84/0.25	5.5 x 10.2
6.0	128/0.025	6.2 x 11.5
10.0	348/0.20	6.3 x 13.5

Multipair Individual Screen (8723 equiv)



Use

Alarm, security, audio & industrial equipment control.

Insulation

Data grade polypropylene 75°C.

Conductor

Tinned Copper Wire.

Pack

100m or 500m Spools.

Colour Code

Pair 1 - Black & Red.
Pair 2 - Green & White.

Pairs	Conductors Number/Dia. (mm)	Nom. Area per core (mm ²)	Nominal Thickness (mm)		Capacitance		Electrical Resistance @ 20°C (M ohm M) per core	Nominal O.D (mm)
			Insulation	Sheath	Mutual	Wire Screen (max)		
2	7/0.25	0.34	0.26	0.40	115	200	56	4.3

NEW...

8723 equivalent with EXTRAS
Call for price & availability

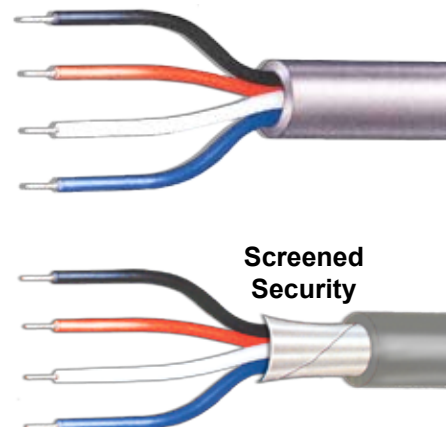
Other (8723 equiv) Configurations

Standard '8723' Feature	Special Features
2 Pair (8723 equiv)	Jelly Filled Underground
2 Pair (8723 equiv)	Plus 2.5 ECC Green/Yellow
2 Pair (8723 equiv)	Plus 2.5 ECC Violet

Security

Low Voltage

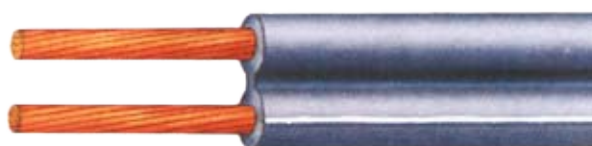
Use	Security Automotive, Control Cable.
Sheath	Grey, Brown or White.
Conductor	Plain Copper.
Pack	100m or 500m Reels - Some styles available in pull boxes.
Colour Code	See table below.



Number Conductors	Colour Code	Conductors (mm)	Nominal O/D (mm)	Area (mm ²)	Screened
4	White, Blue, Red, Black	7/0.2	3.9	0.23	No
6	White, Blue, Red, Black, Green, Yellow	7/0.2	4.5	0.23	No
8	Available on request	7/0.2	6.0	0.23	No
12	Available on request	7/0.2	6.9	0.23	No
4	White, Blue, Red, Black	14/0.2	4.5	0.47	No
6	White, Blue, Red, Black, Green, Yellow	14/0.2	6.0	0.47	No
4	White, Blue, Red, Black	14/0.2		0.47	Yes
6	White, Blue, Red, Black, Green, Yellow	14/0.2		0.47	Yes
7	Available on request	14/0.2		0.47	Yes

Figure 8 Connecting Wires

Use	For the wiring of electronic & allied equipment, extension speakers, security systems, etc.
Sheath	PVC - V75.
Conductor	Untinned Plain Copper.
Pack	100m or 500m Reels.
Colours	Plain - White, Black, Brown, Grey, Clear Trace - White/Black, Grey/Blue, Black/White. Other colours on request.



Wire Size (mm)	Area (mm ²)	Amperage
14/0.14	0.22	Low Voltage
14/0.20	0.45	Low Voltage
(240 Volt Grade) 24/0.20	0.75	7.0
(240 Volt Grade) 32/0.20	1.00	10.0
64/0.20	2.00	Low Voltage
84/0.20	2.50	Low Voltage
130/0.20	4m OFC	Low Voltage
325/0.20	10 OFC	Low Voltage

Individually & Overall Screened

Not to be connected
to mains power!

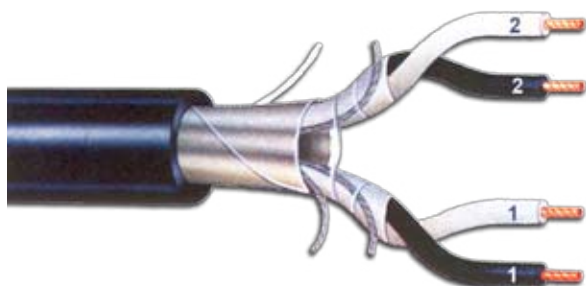
Use
Sheath
Conductor
Pack

Interconnection of control equipment.

Black - V90.

Black & white (Numbered) PVC to AS3191.

100m or 500m Reels.



Also available in
Steel Wire Armoured.

1.5mm² Conductor Range
available on request.

VIP

Description	Stranding No./Dia. (mm)	Nom. Area (mm ²)	Nominal O/D (mm)
2 Pair	7/0.30	0.5	8.9
3 Pair	7/0.30	0.5	9.1
4 Pair	7/0.30	0.5	10.9
6 Pair	7/0.30	0.5	12.4
8 Pair	7/0.30	0.5	13.8
12 Pair	7/0.30	0.5	16.7
16 Pair	7/0.30	0.5	18.6
20 Pair	7/0.30	0.5	20.1
24 Pair	7/0.30	0.5	21.6

Overall Screened Triples

Use
Sheath
Construction

Interconnection of control equipment.

Black PVC - V90-HT.

Stranded plain annealed copper conductor,
V90-HT PVC insulated, twisted aluminium
polyester screen overall, 7/0.25 tinned
Copper drain wire, rip cord.

Pack

500m or cut to length.



Also available in
Steel Wire Armoured.

Not to be connected
to mains power!

Description	Stranding No./Dia. (mm)	Nom. Area (mm ²)	Nominal O/D (mm)
1 Triple	7/0.30	0.5	6.8
1 Triple	7/0.50	1.5	8.1
4 Triple	7/0.30	0.5	11.3
6 Triple	7/0.30	0.5	13.1
8 Triple	7/0.30	0.5	17.7

Instrument Cables

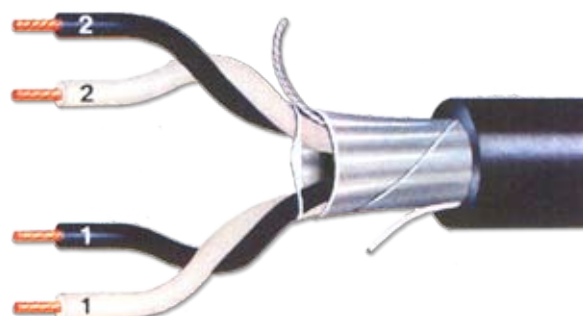
Use Interconnection of control equipment and instrumentation.

Sheath Black - V90.

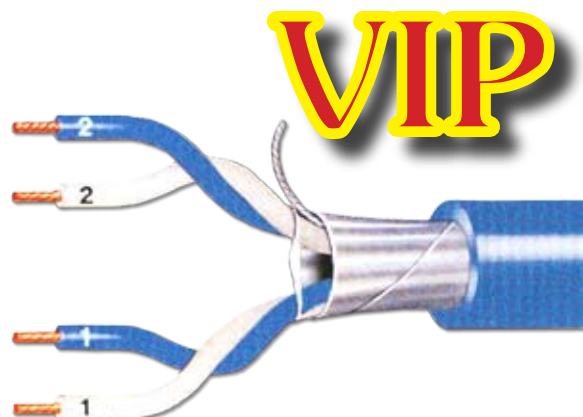
Conductor Black & white (Numbered) PVC to AS3191.

Pack 100m Spools, bulk sizes & other lengths on request.

Special Note	Description	Stranding No./Dia. (mm)	Nom. Area (mm ²)	Nominal O/D (mm)	Available in Steel Wire Armoured
Stock Item	1 Pair	7/0.30	0.5	6.9	Yes
Stock Item	2 Pair	7/0.30	0.5	8.6	Yes
Stock Item	3 Pair	7/0.30	0.5	9.1	Yes
Stock Item	4 Pair	7/0.30	0.5	9.8	Yes
Stock Item	6 Pair	7/0.30	0.5	11.4	Yes
Stock Item	8 Pair	7/0.30	0.5	12.6	Yes
Stock Item	12 Pair	7/0.30	0.5	15.2	Yes
Stock Item	16 Pair	7/0.30	0.5	16.6	Yes
Stock Item	20 Pair	7/0.30	0.5	18.6	Yes
Stock Item	24 Pair	7/0.30	0.5	20.0	Yes
Stock Item	3 Core	24/0.20	0.75	7.4	No
Stock Item	4 Core	24/0.20	0.75	7.6	No
Stock Item	2 Core	32/0.20	1.0	6.7	No
Stock Item	3 Core	32/0.20	1.0	8.5	No
Stock Item	1 Pair	7/0.50	1.5	6.9	Yes
Stock Item	2 Pair	7/0.50	1.5	11.1	Yes
Avail. on request	3 Pair	7/0.50	1.5	12.1	Yes
Avail. on request	4 Pair	7/0.50	1.5	14.2	Yes
Avail. on request	6 Pair	7/0.50	1.5	16.4	Yes
Avail. on request	8 Pair	7/0.50	1.5	17.9	Yes
Avail. on request	12 Pair	7/0.50	1.5	19.3	Yes
Avail. on request	16 Pair	7/0.50	1.5	21.7	Yes
Avail. on request	20 Pair	7/0.50	1.5	24.5	Yes
Avail. on request	24 Pair	7/0.50	1.5	26.4	Yes



Not to be connected to mains power!



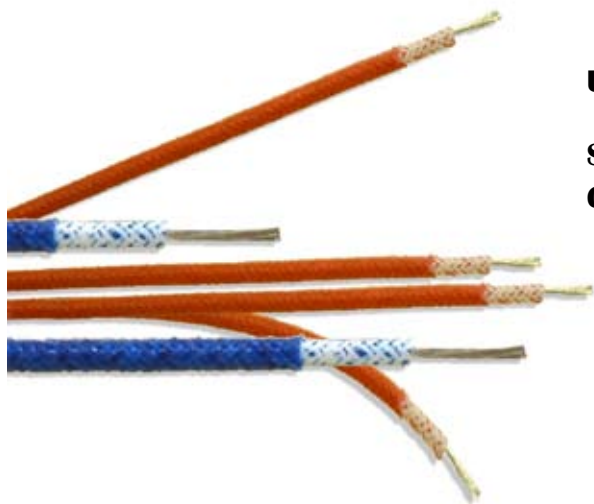
Use Interconnection of control equipment & instrumentation.

Sheath Blue.

Conductor Blue & white (Numbered) PVC to AS3191.

Special Note	Description	Stranding No./Dia. (mm)	Nom. Area (mm ²)	Available in Steel Wire Armoured
Stock Item	1 Pair HV	7/0.30	0.5	No
Stock Item	2 Pair HV	7/0.30	0.5	No
Stock Item	3 Pair HV	7/0.30	0.5	No
Stock Item	4 Pair HV	7/0.30	0.5	No
Stock Item	6 Pair HV	7/0.30	0.5	No
Stock Item	12 Pair HV	7/0.30	0.5	No
Stock Item	16 Pair HV	7/0.30	0.5	No
Stock Item	24 Pair HV	7/0.30	0.5	No
Stock Item	1 Pair HV	7/0.50	1.5	Yes
Stock Item	2 Pair HV	7/0.50	1.5	Yes
Stock Item	4 Pair HV	7/0.50	1.5	Yes

Stranded Hook-up Wires V150°



Use

Situations of extremely high & low temperatures.

Sheath

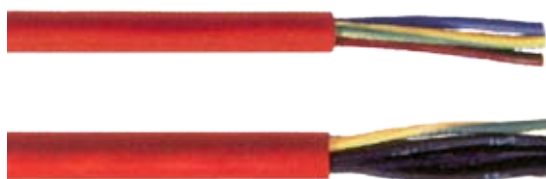
Silicone based, lacquered glass fibre braid.

Conductor

Fine wire strands of Tinned Copper.

Conductor Cross section (mm ²)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Nominal O/D (mm)
0.5	4.8	8.1	2.1
0.75	7.2	11.3	2.4
1.0	9.6	13.7	2.5
1.5	14.4	18.8	2.8
2.5	24.4	30.2	3.4
4.0	38.0	47.7	4.2
6.0	58.0	70.9	5.2
10	96.0	119.7	7.0
16	154.0	187.4	8.4

Stranded Multicore V180°



Use

Situations of extremely high & low temperatures.

Sheath

Silicone based.

Conductor

Fine wire strands of Tinned Copper, Silicone based conductor insulation.

Number Cores	Conductor Cross section (mm ²)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Nominal O/D (mm)
2	0.75	14.4	53.4	6.4
3	0.75	21.6	63.7	6.8
4	0.75	28.8	83.6	7.8
5	0.75	36.0	101.2	8.5
6	0.75	43.2	116.8	9.2
7	0.75	50.0	124.9	9.2
2	1.0	19.2	59.9	6.6
3	1.0	29.0	78.2	7.4
4	1.0	38.4	94.5	8.0
5	1.0	48.0	116.0	8.8
6	1.0	58.0	134.6	9.5
7	1.0	67.0	144.2	9.5
2	1.5	29.0	81.7	7.6
3	1.5	43.0	98.3	8.0
4	1.5	58.0	122.4	8.8
5	1.5	72.0	148.0	9.6
6	1.5	86.4	173.4	10.4
7	1.5	101.0	187.3	10.4
12	1.5	173.0	315.0	14.6
16	1.5	230.4	446.0	15.5
20	1.5	288.0	566.0	18.5
24	1.5	345.6	722.0	20.0

Number Cores	Conductor Cross section (mm ²)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Nominal O/D (mm)
2	2.5	48.0	135.0	8.8
3	2.5	72.0	152.3	9.0
4	2.5	96.0	188.7	10.0
5	2.5	120.0	229.3	10.8
6	2.5	144.0	268.6	13.0
7	2.5	168.0	293.4	13.0
2	4	76.8	181.4	10.8
3	4	115.0	224.0	11.4
4	4	154.0	294.8	12.5
5	4	192.0	359.4	14.4
7	4	269.0	480.0	16.2
2	6	116.0	274.2	13.0
3	6	173.0	338.4	13.4
4	6	230.0	442.1	14.5
5	6	288.0	535.1	16.3
7	6	403.0	685.5	17.5
4	10	384.0	707.1	20.0
5	10	480.0	866.6	22.2
4	16	614.0	987.5	24.3

Control & Remote Control Multiwire

- Use** To connect mobile equipment.
To withstand extreme mechanical stress.
(E.g. vibration.)
For industrial cabling - high cable density,
reduced bending radii, difficult routes.
Suitable for Submersible Pumps.
- Sheath** Selected Rubber Compound
- Conductor** Bare Copper conductor, fine wire stranding.
- Insulation** Special Rubber Compound used in core insulation as per VDE 0207 part 20.
- Pack** 500m or cut to length.



Cross Section (mm ²)	Stranding No./Dia. (mm)	Nominal O/D (mm)
2G1.5	30/0.25	
3G1.0	32/0.20	
3G1.5	30/0.25	11
3G2.5	50/0.25	13
3G4	56/0.30	15
3G6	84/0.30	17
3G10	80/0.40	22
3G16	126/0.40	26
3G25	196/0.40	30
3G35	276/0.40	34
3G50	396/0.40	40
3G70	361/0.50	44
3G95	475/0.50	50
4G1.5	30/0.25	12
4G2.5	50/0.25	14
4G4	56/0.30	16
4G6	84/0.30	20
4G10	80/0.40	25
4G16	126/0.40	30
4G25	196/0.40	35
4G35	276/0.40	40

Cross Section (mm ²)	Stranding No./Dia. (mm)	Nominal O/D (mm)
4G50	396/0.40	45
4G70	361/0.50	50
4G95	475/0.50	58
4G120	608/0.50	63
5G1.5	30/0.25	13
5G2.5	50/0.25	15
5G4	56/0.30	17
5G6	84/0.30	22
5G10	80/0.40	28
5G16	126/0.40	32
5G25	196/0.40	38
7G1.5	30/0.25	16
7G2.5	50/0.25	18
10G1.5	30/0.25	18
12G1.5	30/0.25	19
12G2.5	50/0.25	23
19G1.5	30/0.25	22
19G2.5	50/0.25	27
27G1.5	30/0.25	26
37G1.5	30/0.25	30

Colour Code

No. of Conductors	Colour
1	Black
2	Brown, Blue
3	Green/Yellow, Brown, Blue
4	Green/Yellow, Black, Brown, Blue
5	1 Green/Yellow earth, Numbered black conductors
4	For cables 6.0mm ² & larger - Green/Yellow, Red, White, Blue

NOTE:
If RUBBER cables are required to be immersed in water, ask our staff for the certified depth rating.



Flex Control Cable PVC/PVC Grey Sheath



Use

Control & measurement cables in production lines, machine tools, conveyor belts & air conditioning.

Sheath

Outer - PVC Grey.
Core insulation PVC V75.

Conductor Pack

Bare Copper, fine wire stranding.
500m Reels or cut to length.

Normally Stocked Item	Number Cores	Earth Conductor	Conductor Cross section (mm ²)	Stranding (mm)	Nominal O/D (mm)
Yes	3	Yes	0.5	16/0.20	5.1
Yes	3	Yes	0.75	24/0.20	5.7
Yes	3	Yes	1.0	32/0.20	6.0
Yes	3	Yes	1.5	30/0.25	6.7
Yes	3	No	0.5	16/0.20	5.1
Yes	3	No	0.75	24/0.20	5.7
Yes	3	No	1.0	32/0.20	6.0
Yes	4	Yes	0.5	16/0.20	5.7
Yes	4	Yes	0.75	24/0.20	6.2
Yes	4	Yes	1.0	32/0.20	6.5
Yes	4	Yes	1.5	30/0.25	7.2
Yes	4	No	0.5	16/0.20	5.7
Yes	18	Yes	0.75	24/0.20	13.4
Yes	25	Yes	0.75	24/0.20	15.7
	34	Yes	0.75	24/0.20	16.9
	40	Yes	0.75	24/0.20	19.2
	50	Yes	0.75	24/0.20	20.2
	61	Yes	0.75	24/0.20	21.4
Further core counts & conductor sizes available on request					

Normally Stocked Item	Number Cores	Conductor Cross section (mm ²)	Stranding (mm)	Nominal O/D (mm)
Yes	5	1.0	32/0.20	9.1
Yes	7	1.0	32/0.20	8.8
Yes	12	1.0	32/0.20	12.5
Yes	18	1.0	32/0.20	14.8
Yes	25	1.0	32/0.20	16.9
	34	1.0	32/0.20	18.2
	40	1.0	32/0.20	19.8
	50	1.0	32/0.20	22.0
	61	1.0	32/0.20	23.1
Yes	5	1.5	30/0.25	11.3
Yes	7	1.5	30/0.25	10.7
Yes	12	1.5	30/0.25	14.8
Yes	18	1.5	30/0.25	17.9
Yes	25	1.5	30/0.25	20.5
	34	1.5	30/0.25	22.0
	40	1.5	30/0.25	23.2
	50	1.5	30/0.25	26.5
	61	1.5	30/0.25	28.0
Further core counts & conductor sizes available on request				



Braided Screen Flexible

Use Where electric motors may distort signal transmission to electrical equipment.

Sheath Outer - PVC Transparent.
Inner - PVC Grey.

Conductor Bare Copper Conductor.

Pack 500m Reels or cut to length.

Normally Stocked Item	Number Cores	Conductor Cross section (mm ²)	Nominal O/D (mm)
Yes	3	0.5	8.1
Yes	7	0.5	9.9
Yes	12	0.5	12.4
Yes	25	0.5	16.6
Yes	7	1.0	11.2
Yes	12	1.0	14.4
Yes	18	1.0	16.6
Yes	25	1.0	19.6
Yes	12	1.5	16.6
Yes	18	1.5	20.0
Yes	25	1.5	23.5



VIP

Screen VSD (Variable Speed Drive)



Normally Stocked Item	Number Cores	Conductor Cross section (mm ²)	Nominal O/D (mm)
Yes	3	1.0	9.7
Yes	4	1.0	10.3
Yes	3	1.5	10.9
Yes	4	1.5	11.5
Yes	3	2.5	13.5
Yes	4	2.5	14.3
Yes	4	4	16.0
Yes	5	4	17.3
Yes	4	6	17.9
Yes	5	6	20.0
Yes	4	10	22.3
Yes	5	10	24.0
Yes	4	16	25.8
Yes	5	16	28.5
Yes	4	25	30.5
Yes	5	25	33.5
Yes	4	35	35.0
Yes	5	35	38.0
Yes	4	50	42.0
Yes	4	70	47.0

Use Where electric motors may distort signal transmission to electrical equipment.

Sheath Outer - PVC Transparent.
Inner - PVC Grey.

Conductor Bare Copper Conductor.

Pack 500m Reels or cut to length.

Large sizes
available...
on
request.



Polyurethane Power & Control, Numbered Cores

Number Cores	Conductor Cross section (mm ²)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Nominal O/D (mm)
2	0.75	14.4	43.4	5.7
3	0.75	21.6	53.9	6.0
4	0.75	28.8	64.4	6.5
5	0.75	36.0	76.5	7.1
7	0.75	50.0	97.0	7.6
2	1.0	19.2	52.3	6.1
3	1.0	28.8	62.7	6.4
4	1.0	38.4	75.2	7.0
5	1.0	48.0	89.5	7.6

Number Cores	Conductor Cross section (mm ²)	Copper Weight (kg/km)	Approx. Weight (kg/km)	Nominal O/D (mm)
2	1.5	29.0	69.1	7.0
3	1.5	43.0	87.8	7.4
4	1.5	58.0	106.4	8.0
5	1.5	72.0	130.9	9.1
7	1.5	101.0	173.5	9.7
3	2.5	72.0	146.5	9.6
4	2.5	96.0	202.0	11.1
5	2.5	120.0	222.4	12.0
7	2.5	168.0	293.7	13.0

Power Chain Cable

Use

Specially designed for use in Power Chains. Highly flexible, developed for robotics & machines with continuously moving parts.

Applications which are sensitive to, or generate electromagnetic interference.

***CONTACT OUR OFFICE FOR SIZE & AVAILABILITY**



Construction

Super-fine strands of bare Copper wire, PVC based conductor insulation, textile tape. Special PVC based, silver grey flame retardant outer sheath.



Construction

Super-fine strands of bare Copper wire, PVC based conductor insulation, textile tape & Tinned Copper braid. Special PVC based, silver grey flame retardant outer sheath.

Connecting Wires

Use	For the wiring of communication, electronic and allied equipment and for the internal wiring of switchboards.
Conductor	Tinned Copper Wire.
Insulation	PVC - V90 0.6/1KV.
Pack	100m or 500m Reels.



Colours Available

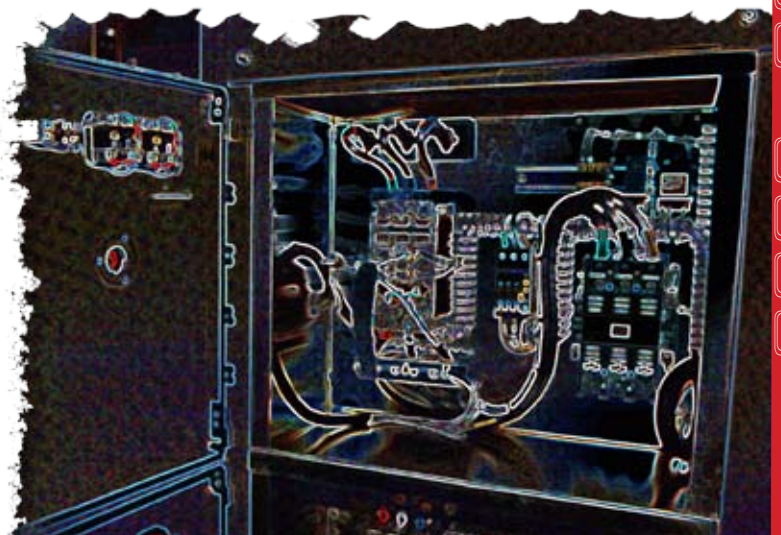
Colour	Order Code
Blue	BL
White	W
Brown	BN
Violet	V
Red	R
Green/Yellow	GN/Y
Black	BK
Pink	P
Orange	O
Grey	GY

Low Voltage Hook Up PVC V90

Conductor (mm)	Area (mm ²)	Amperage	Nominal O/D (mm)
7/0.20	0.23	1.0	1.3
7/0.25	0.34	1.5	1.6
10/0.25	0.50	3.0	1.9

0.6/1KV Flexes

Conductor (mm)	Area (mm ²)	Amperage	Nominal O/D (mm)
16/0.20	0.50	3	2.2
24/0.20	0.75	7	2.5
32/0.20	1.0	10	2.8
30/0.25	1.5	15	3.4
50/0.25	2.5	20	4.1
56/0.30	4.0	25	4.8
84/0.30	6.0	40	5.4
77/0.40	10.0	65	6.6



Single Double Insulated NBR/NBR 0.6/1KV



Use

Switchboards, flexible droppers from bussbars, flexible links, transformers, generators, load banks, or anywhere double insulated single flexible cables are recommended.

Sheath & Insulation

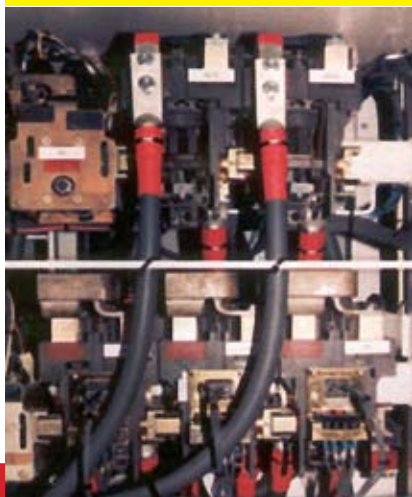
Colours available:
Orange, Black, Red & Blue.

Tough flexible jacket to resist acid, solvents and oil at extreme temperatures.

Conductor

Extra fine wires to international standards to ensure maximum flexibility.

3.3kV available on request



Cross Sectional Area (mm ²)	Approx. No. of Wires/Max Dia (mm)	Average Insulation Thickness (mm)	Maximum Overall Dia. (mm)	Nominal Amps 40°C Spaced	Three Phase Voltage Drop @ 50Hz mv/A/M
6	190/0.21	1.0	8.30	55	7.14
10	318/0.21	1.2	9.40	78	4.26
16	504/0.21	1.2	10.60	105	2.60
25	770/0.21	1.4	12.30	150	1.58
35	1083/0.21	1.4	13.60	180	1.17
50	1558/0.21	1.6	15.40	215	0.88
70	2204/0.21	1.6	17.30	275	0.60
95	2983/0.21	1.8	19.80	330	0.48
120	3810/0.21	1.8	21.80	395	0.38
150	4773/0.30	2.0	24.20	450	0.32
185	5881/0.30	2.2	26.60	520	0.28
240	7630/0.30	2.4	29.20	620	0.24
300	9102/0.30			720	

3.3kV Cable Available On Request

Twin Flex



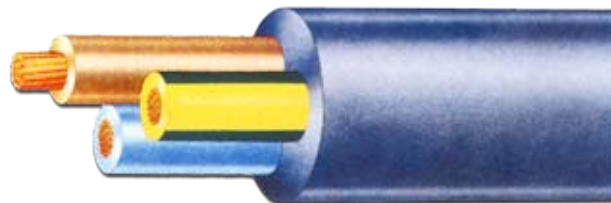
Use

Battery cables for use indoors & outdoors, in wet or dry locations on motorised vehicles or battery powered equipment such as fork lifts, field conveyors etc. Also in high quality booster cables.

No. of Cores.	Cross Sect. (mm ²)	Approx. No. of Wires/Max Dia (mm)	Nominal Insulation Thickness (mm)	Nominal Sheath Thickness (mm)	Approx. Overall Dia. (mm)	Nominal Current Capacity (Amps)
2	4	127/0.21	0.8	0.8	6.0 x 13	42
2	6	190/0.21	0.8	1.0	6.5 x 14	62
2	10	318/0.21	1.0	1.0	8.0 x 17	105
2	16	504/0.21	1.2	1.0	9.0 x 19	135
2	25	770/0.21	1.2	1.2	11.0 x 23	180
2	35	1083/0.21	1.4	1.2	12.5 x 26	225
2	50	1558/0.21	1.4	1.2	14.5 x 30	285
2	70	2204/0.21	1.6	1.4	16.0 x 33	355

Flexible Cables

Use Lighting, Appliances, Plug Leads.
Sheath 75°C PVC to AS3191.
Conductor Plain Copper wire.
Insulation 75°C PVC to AS3191.



Sheath Colours Available

Cable Type (Duty)	Colours Available
Light	White, Light Grey, Orange, Black
Ordinary	White, Light Grey, Orange, Black
Heavy 1.5mm ²	Orange, Blue, Red, Purple, Yellow, Grey, Pink, Green Black
Heavy 1mm ²	Orange Only

Light/Ordinary Duty Circular

No. of Cores	Conductor Area each (mm ²)	Stranding	Duty	Core Colours
2	0.75	24/0.20	Light	Brown, Light Blue
2	1.0	32/0.20	Ordinary	Brown, Light Blue
2	1.5	32/0.25	Ordinary	Brown, Light Blue
3	0.75	24/0.20	Ordinary	Brown, Light Blue, Green/Yellow
3	1.0	32/0.20	Ordinary	Brown, Light Blue, Green/Yellow
3	1.5	30/0.25	Ordinary	Brown, Light Blue, Green/Yellow
3	2.5	50/0.25	Ordinary	Brown, Light Blue, Green/Yellow
4	1.0	32/0.20	Ordinary	Brown, Light Blue, Green/Yellow, Black
4	1.5	30/0.25	Ordinary	Brown, Light Blue, Green/Yellow, Black
4	2.5	50/0.25	Ordinary	Brown, Light Blue, Green/Yellow, Black
5	1.0	32/0.20	Ordinary	Brown, Light Blue, Green/Yellow, Black, White
5	1.5	30/0.25	Ordinary	Brown, Light Blue, Green/Yellow, Black, White
5	2.5	50/0.25	Ordinary	Brown, Light Blue, Green/Yellow, Black, White

Heavy Duty Circular

No. of Cores	Conductor Area each (mm ²)	Stranding	Duty	Core Colours
3	1.0	32/0.20	Heavy	Brown, Light Blue, Green/Yellow
3	1.5	30/0.25	Heavy	Brown, Light Blue, Green/Yellow

Ask us about having
Your Company Name
 printed on the cable sheath.

*Minimum production runs apply.



Fire Rated Cable

VIP



Use

Low Smoke Zero Halogen

Colours

Red & White inner insulation.
Red outer jacket.

Conductor

Stranded Copper Conductors

Insulation

XLPE, HFS-90-TP sheathed to
AS/NZS 5000.1, 90°C, WS52W
fire rated to AS/NZS 3013.2005

Other sizes available
on request.

Number of Cores	Nominal Area (mm ²)	Nominal Insulation Thickness (mm)	Nominal Sheath Thickness (mm)	Nominal Overall Diameter (mm)	Approx. Mass Kg/100m
2	1.5	0.7	1.8	11.4	18

PVC Single Core

Use

Power - 0.6/1kV to AS3147

Colours

Red, Black, White, Blue,
Green/Yellow.
Other colours available on request.

Conductor

Annealed Copper.

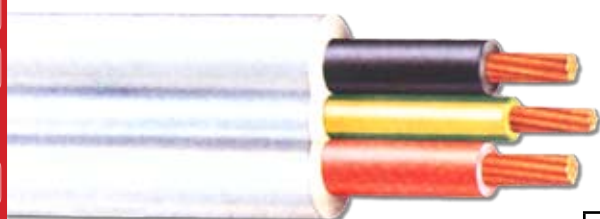
Insulation

PVC compounds for continuous
conductor temperature of V75, V90.

Nominal Conductor Area (mm ²)	Stranding (No./mm)	Approximate Overall Diameter (mm)
0.5	1/0.80	2.6
1.0	1/1.13	2.9
1.5	7/0.50	3.3
2.5	1/1.78	3.6
2.5	7/0.67	3.8
4	7/0.85	4.8
6	7/1.04	5.3
10	7/1.35	6.3
16	7/1.70	7.3
25	19/1.35	9.4
35	19/1.53	10.4
50	19/1.78	12.0
70	19/2.14	13.8
95	37/1.78	16.0
120	37/2.03	17.7



TPS



Use

Power - 3 Core flat, 0.6/1kV to AS3147

Core Colours

Red, Green/Yellow, Black.

Conductor

Annealed Copper.

Sheath Colour

White.

Insulation & Sheath

PVC compounds for continuous
conductor temperature of 75°C.

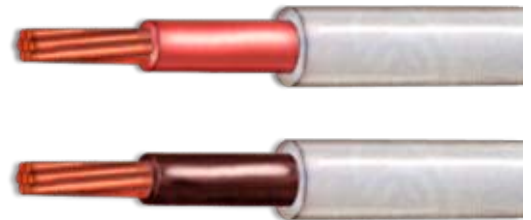
Nominal Conductor Area (mm ²)	No. & Dia. of Wires (No./mm)	Average Insulation Thickness (mm)	Approximate Overall Diameter (mm)	Approx. Mass Kg/100m
1	1/1.13	0.8	7.3 x 12.8	13.0
1.5	7/0.50	0.8	7.7 x 14.3	15.5
2.5	1/1.78	0.8	8.0 x 14.7	19.0
2.5	7/0.67	0.8	8.3 x 15.5	20.0
4	7/0.85	1.0	9.4 x 18.5	28.5

Use Power

Colours Black or Red inner insulation.
White outer jacket.

Conductor Copper Conductors, 90°C

Insulation V-90 insulated, PVC sheathed to AS/NZS5000



Nominal Conductor Area (mm ²)	Nominal Sheath Thickness (mm)	Nominal Overall Diameter (mm)	Standard
1.0	0.8	4.0	450/750V to AS/NZS 5000.2
1.5	0.8	4.4	450/750V to AS/NZS 5000.2
2.5	0.8	5.1	450/750V to AS/NZS 5000.2
4	0.9	6.0	450/750V to AS/NZS 5000.2
6	0.9	6.6	450/750V to AS/NZS 5000.2
10	0.9	7.8	450/750V to AS/NZS 5000.2
16	1.0	8.9	450/750V to AS/NZS 5000.2
25	1.4	11.1	0.6/1kV to AS/NZS 5000.1
35	1.4	12.1	0.6/1kV to AS/NZS 5000.1
50	1.4	13.7	0.6/1kV to AS/NZS 5000.1

Nominal Conductor Area (mm ²)	Nominal Sheath Thickness (mm)	Nominal Overall Diameter (mm)	Standard
70	1.4	15.3	0.6/1kV to AS/NZS 5000.1
95	1.5	18.2	0.6/1kV to AS/NZS 5000.1
120	1.5	20.4	0.6/1kV to AS/NZS 5000.1
150	1.6	22.1	0.6/1kV to AS/NZS 5000.1
185	1.7	24.5	0.6/1kV to AS/NZS 5000.1
240	1.8	27.8	0.6/1kV to AS/NZS 5000.1
300	1.9	30.8	0.6/1kV to AS/NZS 5000.1
400	2.0	34.7	0.6/1kV to AS/NZS 5000.1
500	2.1	38.4	0.6/1kV to AS/NZS 5000.1
630	2.2	42.2	0.6/1kV to AS/NZS 5000.1

Orange Circular 2 Core

Use Power multicore.

Core Colours Red & Black, or Red & White.
Plus Green/Yellow (Earth).

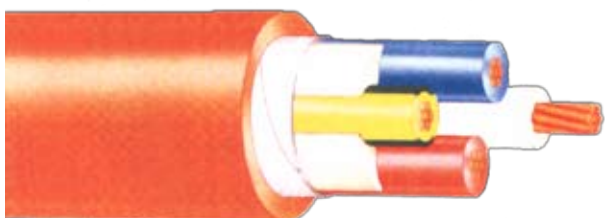
Conductor Annealed Copper.

Insulation & Sheath PVC compounds for continuous conductor temperature of 75°C.



Size of Power Conductor			Size of Earth Conductor		Approx. Overall Dia. (mm)
Nominal Conductor Area (mm ²)	No. & Dia. of Wires (No./mm)	Average Insulation Thickness (mm)	No. & Dia. of Wires (No./mm)	Average Insulation Thickness (mm)	
1.5	7/0.50	0.8	7/0.50	0.6	12.1
2.5	7/0.67	0.8	7/0.67	0.7	13.4
4	7/0.85	1.0	7/0.67	0.7	14.9
6	7/1.04	1.0	7/0.67	0.7	16.0
10	7/1.35	1.0	7/0.85	1.0	18.0
16	7/1.70	1.0	7/1.04	1.0	20.1
25	19/1.35	1.2	7/1.04	1.0	23.6
35	19/1.53	1.2	7/1.35	1.0	26.0
50	19/1.78	1.4	7/1.70	1.0	28.7
70	19/2.14	1.4	19/1.35	1.2	32.6

Orange Circular 3 Core



Use Power multicore.

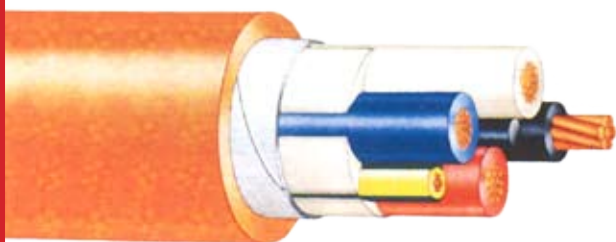
Core Colours Red, White, Blue.
Plus Green/Yellow (Earth).

Conductor Annealed Copper.

Insulation & Sheath PVC compounds for continuous conductor temperature of 75°C.

Size of Power Conductor			Size of Earth Conductor		Approx. Overall Dia. (mm)	Approx. Overall Dia. (mm)
Nominal Conductor Area (mm ²)	No. & Dia. of Wires (No./mm)	Average Insulation Thickness (mm)	No. & Dia. of Wires (No./mm)	Average Insulation Thickness (mm)	3 Core	4 Core
1.5	7/0.50	0.8	7/0.50	0.6	13.0	14.0
2.5	7/0.67	0.8	7/0.67	0.7	14.4	15.5
4	7/0.85	1.0	7/0.67	0.7	16.2	17.6
6	7/1.04	1.0	7/0.67	0.7	17.3	18.9
10	7/1.35	1.0	7/0.85	1.0	19.6	21.4
16	7/1.70	1.0	7/1.04	1.0	21.9	24.1
25	19/1.35	1.2	7/1.04	1.0	25.5	28.2
35	19/1.53	1.2	7/1.35	1.0	28.1	31.0
50	19/1.78	1.4	7/1.70	1.0	31.2	35.0
70	19/2.14	1.4	19/1.35	1.2	35.8	40.3
95	19/2.45	1.6	19/1.35	1.2	40.8	45.7
120	37/2.03	1.6	19/1.53	1.2	44.8	50.4
150	37/2.25	1.8	19/1.78	1.4	49.0	55.8
185	37/2.52	2.0	19/2.14	1.4	56.0	62.2
240	61/2.25	2.2	37/1.78	1.6	60.0	70.6
300	61/2.52	2.4	37/2.03	1.6	68.0	78.1

Orange Circular 4 Core



Use Power multicore.

Core Colours Red, White, Blue, Black
Plus Green/Yellow (Earth).

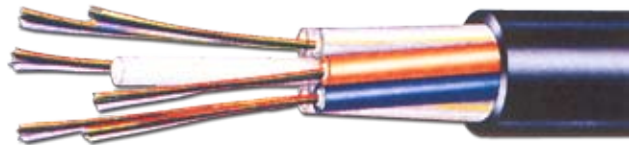
Conductor Annealed Copper.

Insulation & Sheath PVC compounds for continuous conductor temperature of 75°C.

Multicore Orange Circular also available.

External Optical Fibre Loose Tube - Single Mode / Multi Mode

Use	Outdoor/underground data & communication links.
Fibre Colours	See colour chart below.
Construction	2 to 12 optical fibres in water blocked loose tubes (Maximum 12 fibres per tube). Solid Polyethylene fillers, total of 6 elements laid-up around a Glass Reinforced Plastic central strength member. Water blocked interstices, taped, Polyethylene overall sheathed & integrally bonded nylon jacket.
Specifications	ACA TS008; IEC 60793 Parts 1 & 2 & ITU-T recommendations.
Diameter	Overall nominal cable diameter - 8.2mm
Mass	65kg/km (Nominal) - Not including reel weight



Core Counts Available - OM1, OM3 & OS1

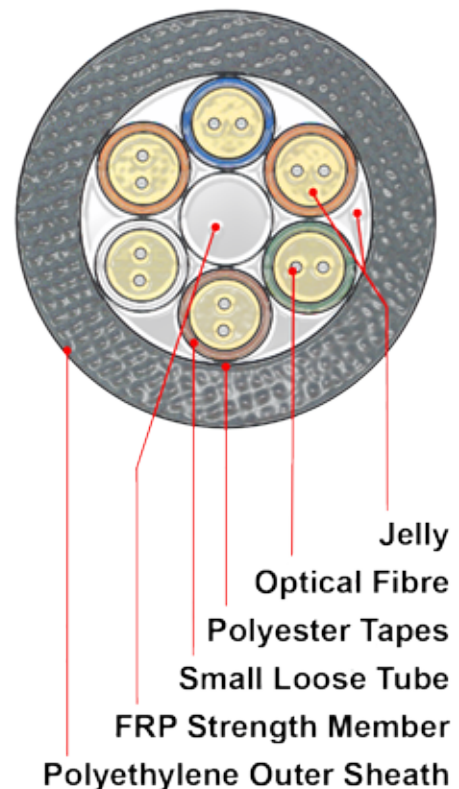
Class	Mode	Core Numbers	Construction
OM1	Multi	4	Outdoor Loose Tube Dry Core
OM1	Multi	6	Outdoor Loose Tube Dry Core
OM1	Multi	8	Outdoor Loose Tube Dry Core
OM1	Multi	12	Outdoor Loose Tube Dry Core
OM3	Multi	4	Outdoor Loose Tube Dry Core
OM3	Multi	6	Outdoor Loose Tube Dry Core
OM3	Multi	8	Outdoor Loose Tube Dry Core
OM3	Multi	12	Outdoor Loose Tube Dry Core
OS1	Single	6	Outdoor Loose Tube Dry Core
OS1	Single	12	Outdoor Loose Tube Dry Core

Colour Code

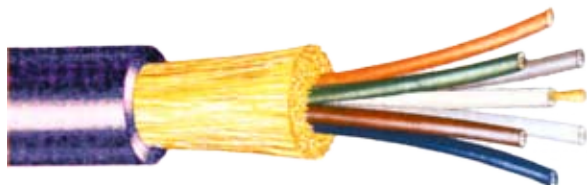
Fibre Core No.	Colour	Fibre Core No.	Colour
1	Blue	7	Red
2	Orange	8	Black
3	Green	9	Yellow
4	Brown	10	Violet
5	Grey	11	Pink
6	White	12	Aqua

Mechanical & Environmental Performance

Minimum Bend Radius - Full Load	180 mm
Maximum Tensile Strength - Short Term	1800 N
Maximum Crush Resistance - Short Term	2000 N/10 cm
Operating Temperature Range	-10°C to +70°C



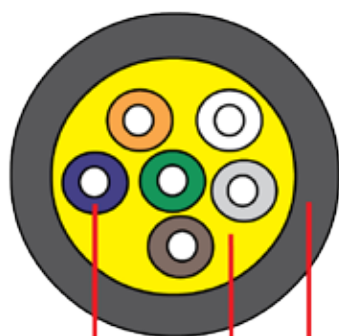
Internal / External Optical Fibre Light Duty Riser Cable - Single / Multi Mode



- Use** Indoors & Outdoors (UV Stabilised)
- Fibre Colours** See colour chart below.
- Construction** 2 to 12 optical fibres, reinforced with aramid yarns, sheathed with NHFR (Black) UV stabilised.
- Specifications** AS/ACIF TS008; IEC 60793 Parts 1 & 2 & ITU-T recommendations.

Core Counts Available - OM1, OM3 & OS1

Class	Mode	Core Numbers	Construction
OM1	Multi	4	Light Duty Riser
OM1	Multi	6	Light Duty Riser
OM1	Multi	8	Light Duty Riser
OM2	Multi	6	Light Duty Riser
OM2	Multi	12	Light Duty Riser
OM3	Multi	4	Light Duty Riser
OM3	Multi	6	Light Duty Riser
OM3	Multi	8	Light Duty Riser
OM3	Multi	12	Light Duty Riser
OS1	Single	6	Light Duty Riser
OS1	Single	12	Light Duty Riser



Tight Buffered
Optical Fibres

Aramid Yarns Reinforcement

NHFR (Black) UV Stabilised Sheath

Colour Code

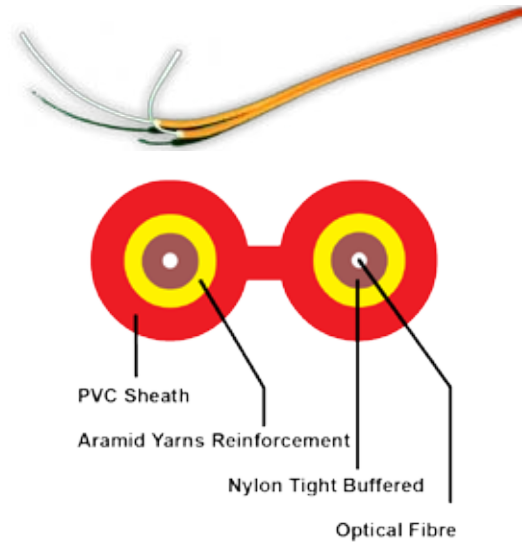
Fibre Core No.	Colour	Fibre Core No.	Colour
1	Blue	7	Red
2	Orange	8	Black
3	Green	9	Yellow
4	Brown	10	Violet
5	Grey	11	Pink
6	White	12	Aqua

Mechanical & Environmental Performance

Fibre Count	Nom. Dia. (mm)	Nom. Mass (kg/km)	Minimum Bending Radius - Full Load (mm)	Max Tensile Strength - Short Term (kN)	Max. Crush Resistance Short Term (kN/100mm)	Operating Temperature Range (C°)
4	4.8	27	85	6.0	1.0	-10 to +60
6	5.6	38	105	6.0	1.0	-10 to +60
8	6.0	42	110	6.0	1.0	-10 to +60
12	6.7	50	125	6.0	1.0	-10 to +60

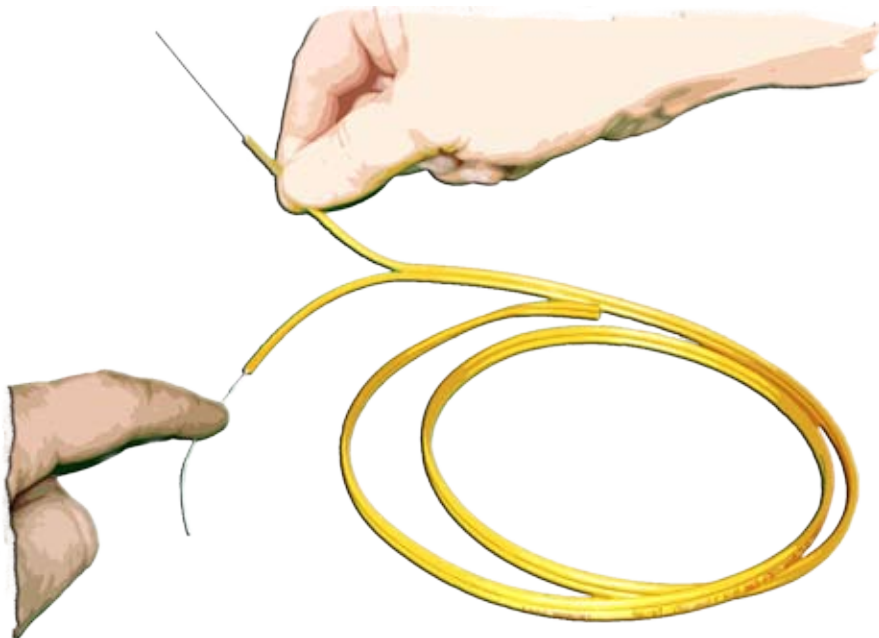
Internal Optical Fibre Cord

Use	Compatible with most optical fibre connectors used within Local Area Networks. Often called 'Zip cord' as the two fibres can be easily separated into single cords. Suitable as patch cable.
Sheath Colour	Yellow - To represent Single Mode. Orange - To represent Multi Mode. Others available on request.
Construction	2 tight buffered optical fibres in Figure 8 configuration, reinforced with aramid yarns, sheathed with PVC.
Fibre Coating Specifications	Nylon - Diameter 0.9mm AS/ACIF TS008; IEC 60793 Parts 1 & 2 & ITU-T recommendations.
Mass	16kg/km (Nominal)



Optical Fibre Zip Cord (Figure 8) OM1 & OS1

Class	Mode	Core Numbers	Overall Dia. Nominal (mm)	Construction
OM1	Multi	2	2.8 x 5.9	Light Duty Riser 62.5/125/900um
OS1	Single	2	2.8 x 5.9	Light Duty Riser 9/125/900um



Mechanical & Environmental Performance

Minimum Bend Radius	
- No Load	30mm
- Full Load	180 mm
Maximum Tensile Strength - Short Term	200 N
Maximum Crush Resistance - Short Term	500 N/10 cm
Operating Temperature Range	-10°C to +60°C

Cable Assemblies

If We Don't Stock The Cable Assembly You Need, We Can Make It For You!



- Coaxial
- DB25 Male - Male
- DB25 Female - Male
- Fibre Optic Special Lengths
- IEC/IEC
- Keyboard Extension
- Mouse Extension
- PC 240 Volt IEC/SEC
- RGB
- Screen Extension/VGA
- SCSI II III
- Telco Data Grade
- Telco Leads 90°
- Telco Leads 180°

Category 5^e & 6 Patch Leads

Description

Flexible RJ45 to RJ45 UTP patch leads.
8 wires twisted in 4 pairs with a wide range of sheath colours available.

Custom Options

Labelling - Business name or building floor, service
Sequential numbering
Special Lengths
Custom Colours

Stocked Lengths

0.5m	1m	1.5m	2m	3m	5m	10m	15m	20m
CUSTOM LENGTHS MADE TO ORDER RING 03 9329 6866								



Crossover cable

**If We Don't Stock The Lead Length You Need,
We Can Make It For You!**

Colours Available:

Category 5e

- Black
- Blue
- Green
- Grey
- Orange
- Pink
- Red
- Violet
- Yellow

Category 6

- Blue
- Green
- Red
- Violet
- Yellow





Patch Panels

16 Port Category 5e

24 Port Category 5e

24 Port Category 6



Telecommunications Outlet

RJ45 Category 5e

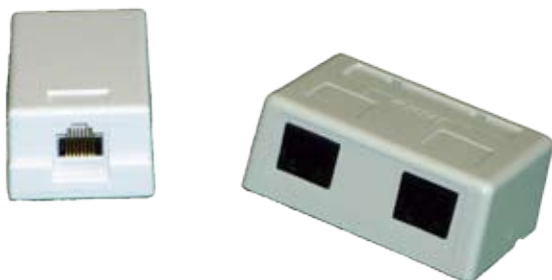
RJ45 Category 6

Standard colour white, others available on request.



Cable Manager

1RU Cable Manager



Surface Mount Boxes

RJ45 Category 5e Single Port

RJ45 Category 5e Two Port

Standard colour white.

Category 6 available on request.

Patch Panels

- 16 Port Category 5e
- 24 Port Category 5e
- 24 Port Category 6



Telecommunications Outlet

- RJ45 Category 5e
- RJ45 Category 6
- Standard colour white, others available on request.



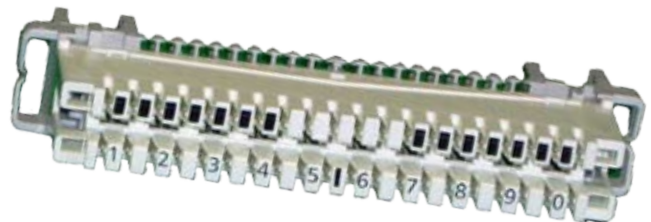
Surface Mount Boxes

- RJ45 Category 5e Single Port
- RJ45 Category 5e Two Port
- Standard colour white, ivory & grey available on request.



Disconnection Module

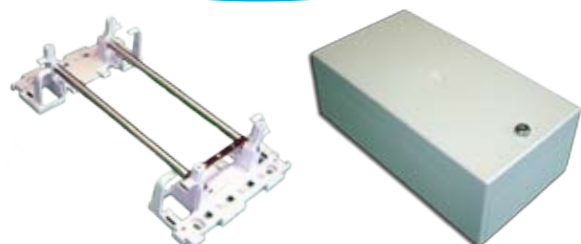
- For termination where circuit isolation, access or circuit patching is required.



Frames & Mounting Systems

- 11 way (100 pair) & 27 way (250 pair) frames with optional covers.
- 500 & 600 pair without covers.
- For internal use as an MDF, IDF or FDP.
- For mounting of LSA-Plus modules.
- Can be used at or beyond the network boundary.

Frames available in Backmount or Profil style.



5 Port Switch



**10/100 Mbps Unmanaged
5 x RJ45 Ports (Auto-sensing)
Includes power adapter**

8 Port Switch



**10/100Mbps Unmanaged
8 x RJ45 Ports (Auto-sensing)
Includes power adapter**

24 Port Switch



**10/100Mbps Unmanaged
24 x RJ45 Ports (Auto sensing)
Includes power adapter & rack mount ears**

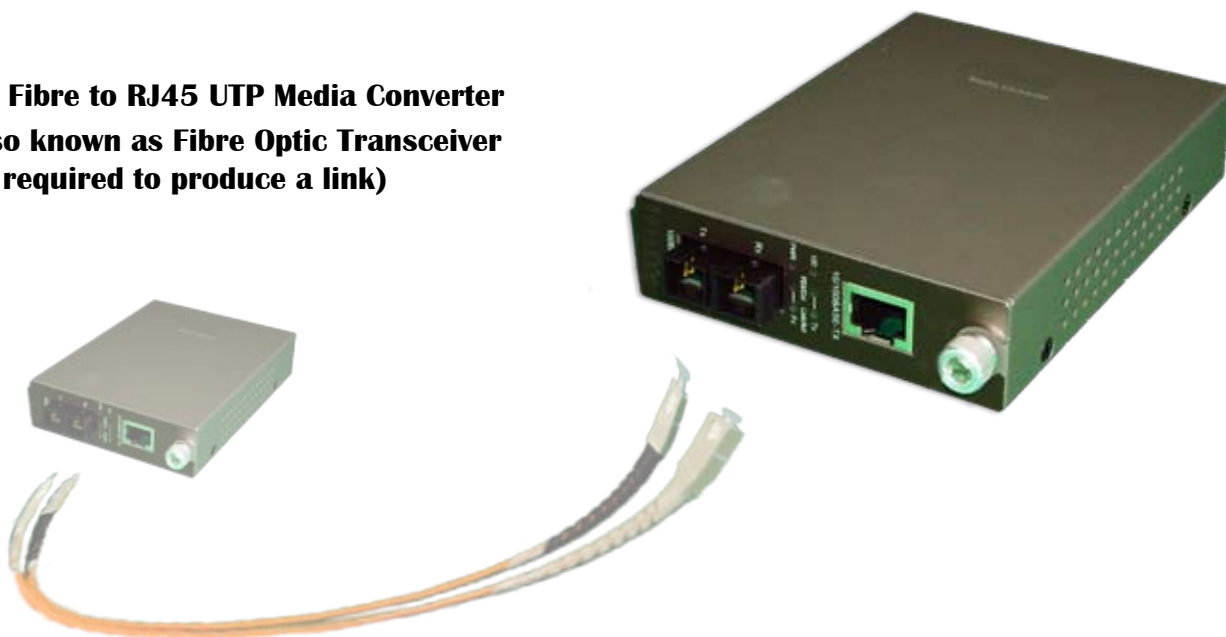
Broadband Router



**Broadband router
Easy installation
Built in firewall protection
Includes 4 port switch & power adapter**

Media Converters Fibre Optic to UTP

SC Fibre to RJ45 UTP Media Converter
Also known as Fibre Optic Transceiver
(2 required to produce a link)



VIP

Uninterruptible Power Supplies

Uninterruptible Power Supplies come in wide variety of sizes & configurations.

Please call our helpful staff to find a UPS to match your needs.

Things to consider:

***List the electrical items you wish to cover with the unit.**

***How long do you require the back up power?**



ADSL Filters

ADSL Micro Filter



ADSL Central Filter/Splitter



**ADSL Line Filter/Splitter
(suits early model phone sockets)**

**ADSL Line Filter/Splitter
(with modular cord)**



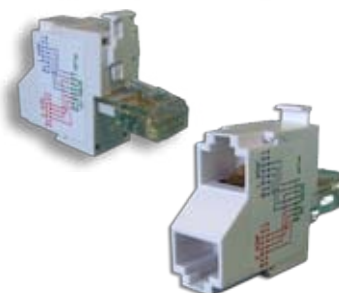
Category 5 Splitter



**To run 2 different devices
on the one cable.**

Wiring Number	Type
2	Voice + Voice
3	Voice + Voice
4	Voice + Data
5	Data + Data
7	Parallel

Category 5e Splitter



Category 5 Coupler

**To link patch cords together or change
gender.
Wiring is 1 to 1.
Suitable for T568A & T568B.**



Category 5e Right Angle Coupler



**For use with keystone plates & patch
panels.
Can also fit into Clipsal or HPM plates
with an adapter.
Wiring is 1 to 1.
Suitable for T568A & T568B.**

RJ Modular Plugs

RJ (Registered Jack) Modular Plugs with Gold Plated Contacts.

RJ11 - 4P4C to suit flat stranded cable

RJ12 - 6P4C to suit flat stranded cable

RJ12 - 6P6C to suit flat stranded cable

RJ45 - 8P8C to suit flat stranded cable

RJ45 - 8P8C to suit round solid cable



Coaxial Connectors



Nickel Plated Coaxial Connectors with Gold Plated Captive pins.

Connectors to suit RG58 or RG59 coaxial cable.

Also stock a range of 'F' Connectors for Cable TV Terminations.

Coaxial Strain Relief Boots

Boots to suit many cable & connector sizes available on request.



D - Subminiature Connectors

Crimp Type Connectors

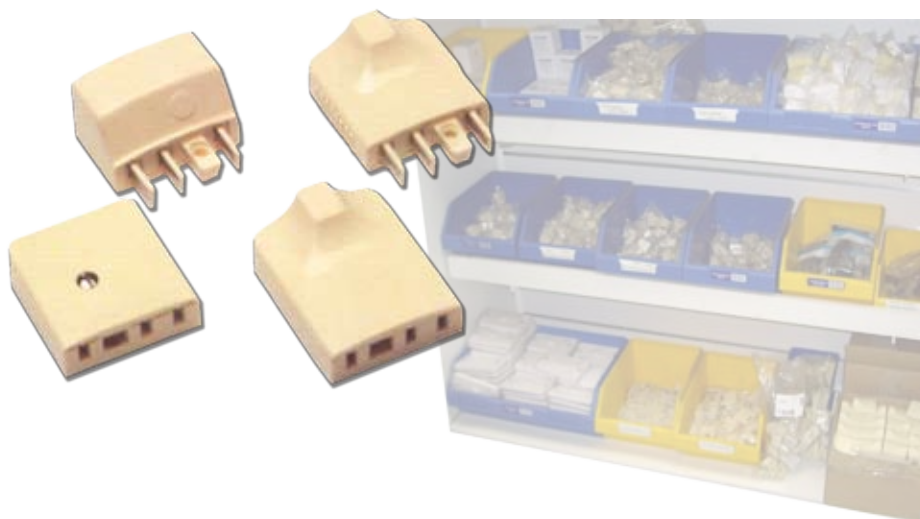
Solder Type Connectors

D - Sub Gender Changers

Backshells to 9, 15 & 25 Way



Telephone Connectors



605 Plug
610 Socket
RJ12 - 605 Adapter
RJ12 - 610 Adapter
605 Double Adapter
Crimp Lugs for 605 Plug
RJ12 Coupler
RJ45 Coupler
RJ12 T Piece
RJ45 T Piece

Type C Tone Ringer & Speaker



Type C shown above
(Type A also available)

Other telephone
 accessories available
 on request.

Telephone Wall Plate



Change Over Switch



Sizes Available

Size No.	Length (mm)	Width (mm)	Depth (mm)	Thickness (mm)
1	419	155	130	40
2	553	180	514	46
3	663	243	570	50
4	584	281	760	50

VIP

Cable Pits



Cable Joint Enclosures



Ease of termination
Over voltage protection
Pole or wall mounting
Testing & isolation



Optic Fibre Cable Joints

Copper Cable Joints

3 Way Jelly Filled Connector



2 Way Jelly Filled Connector



Sold in boxes of 100
Crimp tool available.



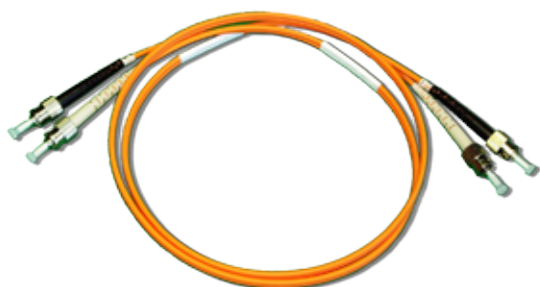
Duplex Fibre Optic Leads - Single or Multi Mode

Available in OM3 !

Colours

Mode	Sheath Colour
Multi Mode	Orange
Single Mode	Yellow
OM 3	Blue

ST - ST 1m, 2m, 3m, 5m & 10m



ST - SC 1m, 2m, 3m, 5m & 10m



SC - SC 1m, 2m, 3m, 5m & 10m



ST - LC 1m, 2m, 3m, 5m & 10m



LC - LC 1m, 2m, 3m, 5m & 10m



SC - LC 1m, 2m, 3m, 5m & 10m



Custom lengths & other configurations made to order.

Fibre Optic Connectors - Single or Multi Mode

SC Fibre Optic Connectors



ST Fibre Optic Connectors



LC Connectors
Available

SC Through Adapters



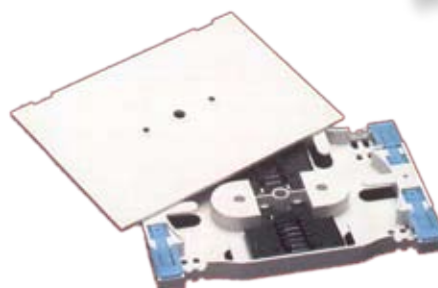
ST Through Adapters



Rack Mounted Fibre Trays



Fusion Splice Tray (Cassette)



Wall Mount Fibre Box



Fusion Splice Protector



Fibre

C
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'F' Set Cable Tester (CZ1000)



- Cable identifier**
- Inbuilt loudspeaker**
- Insulated probe tip**
- Avoids split pairs by positive pair verification**

Buttinski Test Set



- Loud speaker test telephone**
- ADSL compatible**
- Number memory storage**
- Polarity test**
- Speaker mode**
- Talk mode**
- Monitor mode**
- Belt clip**

Clipsal Cable Tester



- Identifies most common voice & data cabling problems:**
- shorts, opens, reversals & incorrect polarity
 - accurately verifies the continuity & sequence
 - 1, 2, 3 & 4 pair voice & data channels
 - LED display provides results at a glance

- Tester set interlocks for convenient storage**
- Comes with soft case**

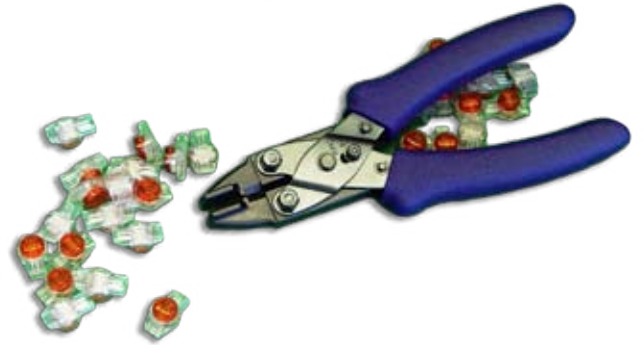


Caution:
Do not use on live circuits

110 Tool



Jelly Filled Connector Tool



'F' Coax Connector Tool



Cable End Stripper



Coax Stripper RG58 - RG59 - RG6



RJ11 - RJ12 - RJ45 Crimper



Cable Sheath Stripper



Coax Crimper



600 Wide Floor Standing Cabinets

Setting new standards in outstanding design and superior quality manufacturing are just two of the main goals which Hallam Manufacturing build into all their products.

Through research, development and client interaction, Hallam Manufacturing produces high quality 19" rack cabinets and accessories to customer's current and future requirements.

Telecommunications carriers, international electronics companies, government, military, computer companies, laboratories, banks, radio and television stations specify Hallam cabinets for secure, accessible and organised housing of their valuable equipment.

Hallam cabinets offer superb appearance to enhance any installation.

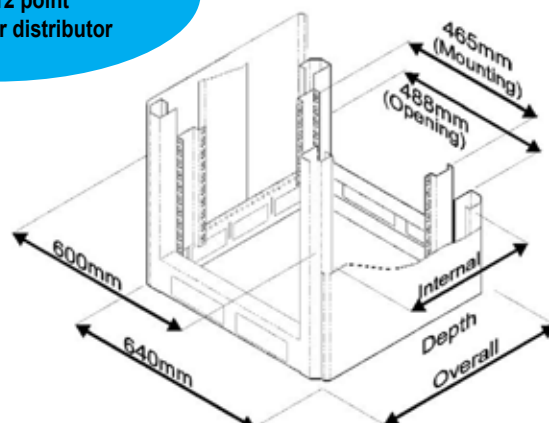


600 Wide Sizes

Height RU	Available Depths (mm)
18	600, 800, 900, 1000, 1200
27	600, 800, 900, 1000, 1200
39	600, 800, 900, 1000, 1200
42	600, 800, 900, 1000, 1200
45	600, 800, 900, 1000, 1200



All floor standing cabinets come with a built in 12 point vertical power distributor



800 Wide Floor Standing Cabinets

800 Wide Sizes

Height RU	Available Depths (mm)
18	600, 800, 900, 1000, 1200
27	600, 800, 900, 1000, 1200
39	600, 800, 900, 1000, 1200
42	600, 800, 900, 1000, 1200
45	600, 800, 900, 1000, 1200

VIP

New!
Vertical cable manager...
 Fits in the extra space available in
 the 800 Wide cabinets
 (when the rails are set to 19" standard).

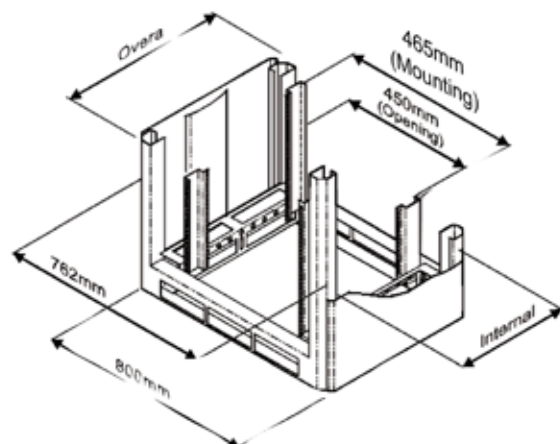
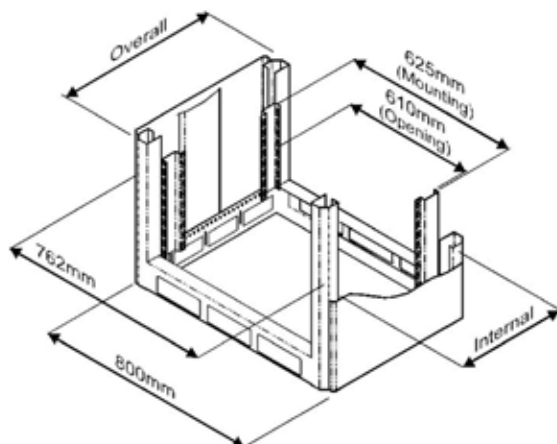
Comes with a hinged cover.

With 800 wide cabinets you must choose the correct style for your needs.

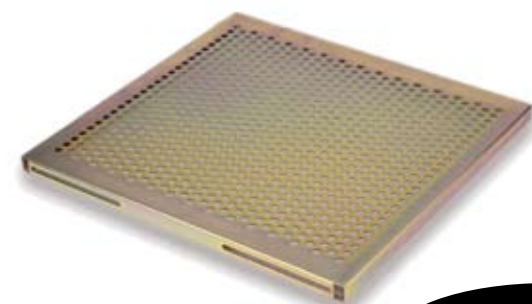
Important: Get the rails right!

The 800 wide range may be ordered with the internal mounting rails at 19" (465mm) see pictured right.

Or it may be ordered with the rails set at 625mm for equipment wider than the standard 19". See below.



Fixed Shelves



Standard colour
BLACK

Vented Fixed Shelves

Mounting Style	Depth (mm)
19 Inch	380
19 Inch	480
19 Inch	580
19 Inch	680
19 Inch	780
19 Inch	880
19 Inch	1080

Plain Fixed Shelves

Mounting Style	Depth (mm)
19 Inch	380
19 Inch	480
19 Inch	580
19 Inch	680
19 Inch	780
19 Inch	880
19 Inch	1080

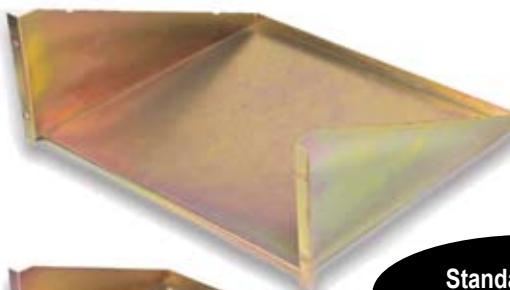
Cantilever Shelves

Plain Cantilever Shelves

Mounting Height	Depth (mm)
2RU	200
3RU	300
4RU	400
5RU	500
6RU	600

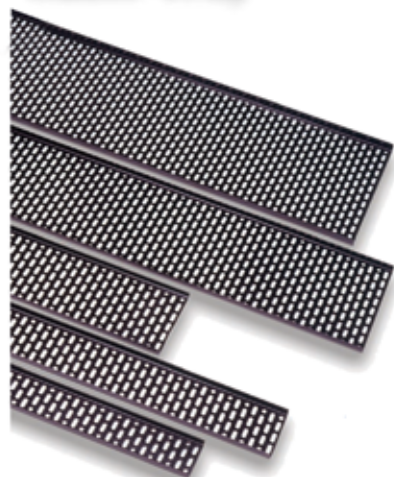
Vented Cantilever Shelves

Mounting Height	Depth (mm)
2RU	200
3RU	300
4RU	400
5RU	500
6RU	600



Standard colour
BLACK

Cable Tray



Cable tray is available in various widths and heights to fit the cabinet size.

Cable Tray Sizes

Cabinet Height	Widths Available (mm)
18RU	75, 100, 150, 200, 300
27RU	75, 100, 150, 200, 300
39RU	75, 100, 150, 200, 300
42RU	75, 100, 150, 200, 300
45RU	75, 100, 150, 200, 300

Wall Cabinets

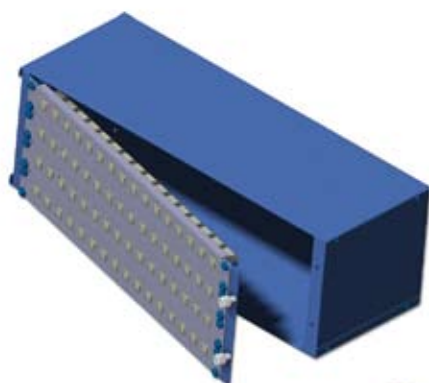
19" Rails are fully adjustable
Knockout (removable) cable entry points
Perspex or metal doors optional
Rear mounting swing frame available to allow cabinet to swing completely from the wall

Heights available:
6RU, 12RU, 18RU, 27RU

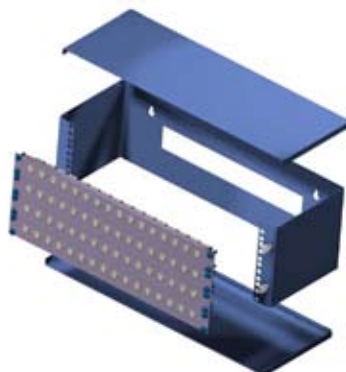
Depths available:
350mm, 450mm, 600mm



Wall Brackets



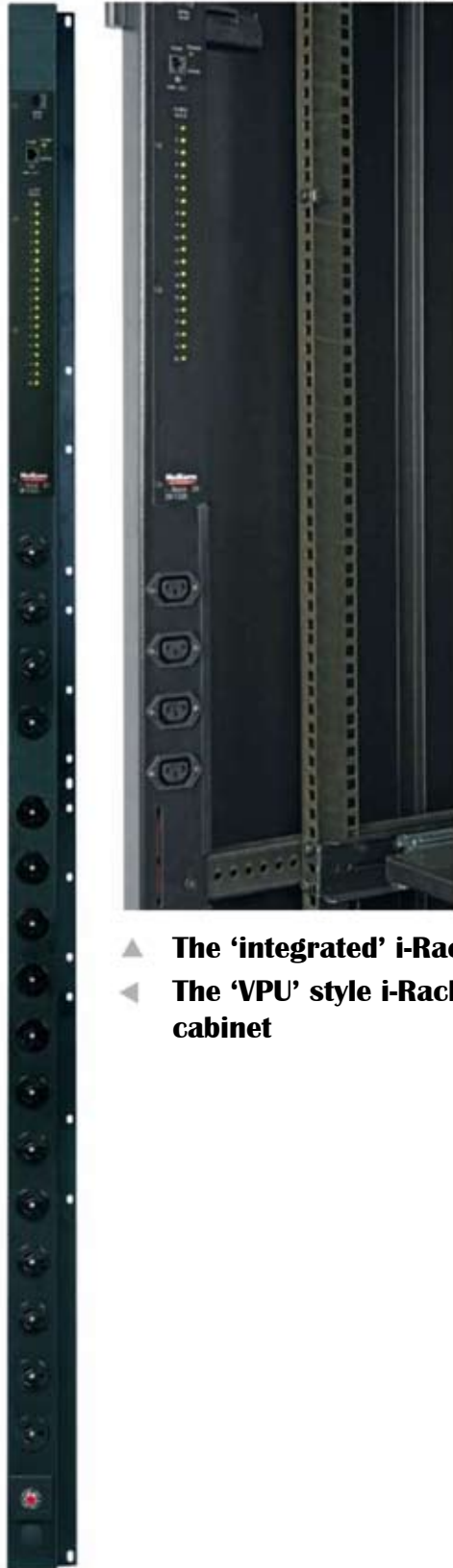
Budget 19" mounting system
Simple to install
Fixed or hinged available
Top & bottom covers included



Standard colour
GUN METAL GREY

Sizes available:
Height 2RU, 4RU, 6RU
Depth 100mm, 200mm, 300mm

Rack Power Distribution Manager



i-Rack

Rack power distribution manager

Allows users to:

Turn individual outlets (on the rail) on & off

Cycle power to equipment

Reboot locked up equipment remotely

Prevent unauthorised use of outlets

IT ALLOWS THE USER TO CONTROL THE POWER WITHIN THE CABINET OR RACK

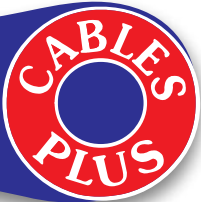
- ▲ **The 'integrated' i-Rack may be 'built in' to new cabinets to save space**
- ◀ **The 'VPU' style i-Rack may be sold separately to be added to an existing cabinet**

The i-Rack uses an HTML based network interface to allow for power management

Other benefits:

Observe status of each outlet and take preventative action if required

Record events with time and date stamp



Horizontal Power Distribution Rails

- 6 Point (1RU)
- 8 Point (2RU)
- 10 Point (2RU)



Vertical Power Distribution Rails

Vertical Power Rail Sizes

To Suit Cabinet Height	Power Point Numbers Available
18RU	8
27RU	8, 10, 12, 14, 16
39RU	8, 10, 12, 14, 16, 24
42RU	8, 10, 12, 14, 16, 24
45RU	8, 10, 12, 14, 16, 24, 26

Options available for
Power Distribution:
CAPTIVE PLUGS, CIRCUIT BREAKERS
SURGE PROTECTION,
IEC PLUGS & SOCKETS

Channel / Lab Racks



Heights Available:

39RU, 42RU, 45RU, 49RU, 53RU

Cable Management Section Sizes:

39RU, 42RU, 45RU, 49RU, 53RU

Cable Management End Section Sizes:

39RU, 42RU, 45RU, 49RU, 53RU

File Server Cabinets

Doors designed with optimum ventilation

Stabilizer base for user safety

Fully welded frame

Cabinet comes with cable entry points

Lockable sides & doors provide added security

Space saving integrated power distribution

Sizes and prices available on request



Fan Trays

Available in...

**2, 4, 6 & 8 fan configurations
to suit 19" & 800 series cabinets.**

Low noise fans - optional

Thermostats - optional



Telescopic Shelves

**Plain or vented to suit 19" & 800
series cabinets**

Easy adjustable mounting positions

**Quick release action for complete
removal**



Telescopic Keyboard Drawer

**Telescopic & pivoting shelf
to accept keyboard mounts
into standard 19" cabinet**

Note: Keyboard not included



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