

Qing

DIRECTORY

Cables



ISSUE 9

TELECOMMUNICATIONS
STRUCTURED WIRING
DATA
SECURITY
FIBRE OPTIC
MAIN
SPEAKER
CABLES
COAXIAL
TELECOMMUNICATIONS

COMPREHENSIVELY CABLE

Qing Cables Ltd, with well over 20 years of highly successful trading to its credit, is today one of the leading companies in the field of specialist communication cables, with access to some of the best manufacturing technology throughout Europe & the world.

We offer a comprehensive, but ever expanding range of high quality cables for use in applications, including Data, Telecommunications, CCTV/Security, and Broadcast. Large stocks are held in our warehouses in Cheltenham, which are augmented by a wealth of product & market knowledge and an ability to supply cables designed to customer specifications, meaning we are able to fulfil most requirements.

Careful examination of samples and specifications allows our experienced sales staff to offer exact and/or alternative solutions to your needs. This is a product of our ongoing staff training program which is tied into our BS EN ISO9001 Quality Management System that has been running since 1991.

Our aim is to manage our customers cable programme, working closely with them to find the most innovative and cost effective solution possible, successfully delivering to multiple branches, or discrete, 'direct to site' deliveries when required. We pride ourselves on always giving accurate delivery schedules necessary to ensure that our products are delivered on site, on time, and in good order.

Our QM System incorporates stringent Health & Safety Guidelines, and has been expanded to include our Environmental Policy, which has seen our landfill waste reduced by more than 90% within 3 years.





Sales: 01242 224141



Special Product Services

Most of the cables illustrated in this document can be changed to suit your exact requirements. This may include something as simple as having your company name or product code printed on the Sheath, to changing Sheath colour, material/compound, or over Sheathing/over armouring.

QUALITY, SERVICE AND INTEGRITY – IN ONE!

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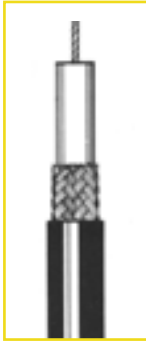
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Qing Cables Ltd., Malmesbury Road, Kingsditch Trading Estate,
Cheltenham, Glos GL51 9PL

Tel: +44 (0) 1242 224141 Fax: +44 (0) 1242 224134
Email: enquire@qingcables.co.uk Website: www.qingcables.com



RG

TYPE	CONDUCTOR		DIELECTRIC		SCREEN		SHEATH			ATTENUATION dB/100m		
	SIZE	TYPE	SIZE	TYPE	TYPE	Ø	Ø	TYPE	Ω	1	10	100
RG6	1/0.72	CCSW	4.70	PE	1XSPCW 1XPCWB	6.3	8.40	PVC	75	0.72	2.10	9.50
RG11	7/0.40	TCW	7.24	PE	PCWB	8.15	10.30	PVC	75	0.72	2.30	7.20
RG58	19/0.18	TCW	2.95	PE	PCWB	3.58	4.95	PVC	50	1.40	5.30	20.00
RG58LSF	19/0.18	TCW	2.95	PE	PCWB	3.58	4.95	LSF	50	1.40	5.30	20.00
RG59	1/0.58	CCSW	3.71	PE	PCWB	4.39	6.20	PVC	75	0.99	3.60	13.00
RG59 C	1/0.58	PCW	3.71	PE	PCWB	4.39	6.20	PVC	75	0.99	3.60	13.00
RG59LSF	1/0.58	CCSW	3.71	PE	PCWB	4.39	6.20	LSF	75	0.99	3.60	13.00
RG59LSZH	1/0.58	CCSW	3.71	PE	PCWB	4.39	6.20	LSZH	75	0.99	3.60	13.00
RG59PE	1/0.58	CCSW	3.71	PE	PCWB	4.39	6.20	PE	75	0.99	3.60	13.00
RG59DB	1/0.58	CCSW	3.71	PE	PCWB	4.39	7.40	DB	75	0.99	3.60	13.00
RG59SWA	1/0.58	CCSW	3.71	PE	PCWB	4.39	11.00	PVC		0.99	3.60	13.00
RG59MINI	1/0.41	CCSW	2.00	PE	Cu TAPE 1XTCWB	-	3.60	PVC	75	-	-	15.70
RG59x2	RG59 x 2 in Fig.8 (Shotgun) Construction						2x 6.1	PVC	75	0.99	3.60	13.00
RG59/2C/SG	RG59 + 2 Cores 0.75mm ² Fig.8 (Shotgun) Construction						6.1/5.4	LSF	75	0.99	3.60	13.00
RG59/4C	RG59 + 4 Cores 0.5mm ² Concentric Construction						9.80	PVC	75	0.99	3.60	13.00
RG62	1/0.64	CCSW	3.71	SASPE	PCWB	4.39	6.20	PVC	93	0.82	2.80	8.90
RG174	7/0.16	CCSW	1.52	PE	TCWB	1.98	2.54	PVC	50	6.00	11.00	26.00
RG178	7/0.10	SCPSW	0.84	PTFE	SPCW	1.30	1.80	FEP	50	-	-	45.30
RG179	7/0.10	SCPSW	1.60	PTFE	SPCW	2.06	2.54	FEP	75	-	-	26.80
RG179PVC	1/0.36	TCW	1.60	PE	TCWB	2.0	2.45	PVC	75	-	-	-
RG179STR	7/0.13	TCW	1.60	PE	TCWB	2.0	2.45	PVC	75	-	-	-
TRIPLE COAX	3x RG179PVC (R/G/B)						7.20	PVC	75	-	-	-
RG213	7/0.75	PCW	7.24	PE	PCWB	8.15	10.30	PVC	50	0.72	2.30	7.20
RG214	7/0.75	SPCW	7.24	PE	2xSPCWB	8.71	10.80	PVC	50	0.72	2.30	7.20
RG223	1/0.89	SPCW	2.95	PE	2xSPCWB	4.2	5.30	PVC	50	1.20	4.30	16.00
RG316	7/0.17	SCPSW	1.52	PTFE	SPCW	1.95	2.50	FEP	50	-	-	26.20

URM

TYPE	SIZE	TYPE	SIZE	TYPE	TYPE	Ø	Ø	TYPE	Ω	1	10	100
URM43	1/0.90	PCW	2.95	PE	PCWB	3.63	5.00	PVC	50	1.30	4.10	13.00
URM67	7/0.77	PCW	7.25	PE	PCWB	8.15	10.30	PVC	50	0.64	2.05	6.80
URM70	7/0.19	PCW	3.25	PE	PCWB	3.93	5.80	PVC	75	1.50	4.80	15.20
URM70LSF	7/0.19	PCW	3.25	PE	PCWB	3.93	5.80	PVC	75	1.50	4.80	15.20
URM70DB	7/0.19	PCW	3.25	PE	PCWB	3.93	8.00	RBS	75	1.50	4.80	15.20
URM70SWA	7/0.19	PCW	3.25	PE	PCWB	3.93	10.60	PVC	75	1.50	4.80	15.20
URM70/2C/SG	URM70 + 2 Cores 0.75mm ² Fig.8 (Shotgun) Construction						6.1/5.4	LSF	75	1.50	4.80	15.20
URM76	7/0.32	PCW	2.95	PE	PCWB		5.0	PVC	50	-	-	14.80

A range of cables suitable for general-purpose high frequency signal transmission. RG cables manufactured to MIL-C-17, or high commercial grade, URM cable manufactured to BS2316.

The cables mentioned on this page represent only part of a much larger range. Many more RG & URM cables are listed in our reference section at the back of this guide (Pages R:1 & R:2)

Other Sheath options: LSF, LSZH, PE. SWA versions of some types are also available, or can be made to order. Special Sheath colours & printing can also be arranged.

We also stock a range of Connectors.

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TELEVISION DISTRIBUTION COAXIAL

Qing Cables offer a range of cables designed for use on CCTV, Broadband Systems, Cable TV, MATV, and quality satellite reception. They are manufactured in accordance with EN50117 standards.

The cables are designed to work at frequencies in excess of 2000Mhz, whilst offering excellent attenuation and RLR figures.

The construction is Gas Injected Foam with a longitudinally overlapped Copper Tape and Plain Copper Braid, facilitating good bending radius characteristics and very efficient Screening in areas with high electrical noise presence.

Whilst the popular DFD100 is available in black, white or brown PVC Sheath, larger sizes are black PE (Polyethylene), which gives improved durability and a higher level of protection, not only to water and humidity, but also to oils and some solvents. The black carbon substance in PE increases the cables' resistance to ultraviolet rays.

The range is manufactured to meet the stringent CAI Construction / Performance criteria, so digital compatibility is assured.

Other Sheath options available are: LSZH (Low Smoke Zero Halogen), DB (Direct Burial)

Lower grade 5 Cell versions are also available in a limited range suitable for CCTV where high frequency transmissions are not used. The range also includes Direct Burial Grade options.



OPTIONS

MULTICORE OPTIONS

DFD100X2 – Twin DFD100 in a Fig.8 / Shotgun formation
DIG5/E – 5x DFD100 + 4.0mm² Earth

LOW SMOKE EMISSIONS

Many local authorities and government bodies specify that cables installed must be of "Low Smoke and Fume" (LSF), or "Low Smoke Zero Halogen" (LSZH) construction. LSZH types are available stock.

DIRECT BURIAL (DB)

Where a situation calls for cables to be buried, the DB range offers a cost effective, rugged solution. These cables have a double Sheath construction, the inner of Polyethylene, and the outer polypropylene giving a very robust finish. This Sheath also has very low abrasion properties making it easy to pull into ducts.

THE DBF RANGE CARRIES A 15 YEAR GUARANTEE

CCTV

Where extremely long external / ducted runs are required QC125S is an ideal replacement for RG59. This cable has a UV Stabilised Polyethylene (PE) Sheath.

DIRECT BURIAL (DBX)

Where a situation calls for cables to be buried, the DBX range offers a cost effective, rugged solution. These cables have a double Sheath construction, the inner of Polyethylene, and the outer polypropylene given a very robust finish.

Full technical details on these cables are illustrated on the following pages (1:3 & 1:4); please also refer to our CCTV/ Security Section 5 of this catalogue.

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ELECTRICAL DATA		DB100X	QC125S / DB125X
Impedance	Ohm	75 ±3	75 ±3
Velocity ratio	%	82	82
Capacitance	pF/m	55 ±2	55±2
Attenuation dB/100m (@20°C±5%)			
	50Mhz	4.2	3.4
	200Mhz	8.6	7.0
	300Mhz	10.7	8.7
	500Mhz	13.9	11.3
	800Mhz	18.0	14.6
	1000Mhz	20.2	16.4
	1350Mhz	24.0	19.5
	1750Mhz	27.6	22.5
	2050Mhz	30.0	25.0
	2150Mhz	31.0	25.6
Approximate CCTV Cable Run			
	6db Loss	450m	540m
	9db Loss	680m	800m
	For comparison – RG59 6db	260m	260m
	For comparison – RG59 9db	390m	390m
Conductor Resistance			
Inner	Ohm/Km	22.5	15.0
Outer	Ohm/Km	13.5	9.5

CONSTRUCTION DATA		DB100X	QC125S	DB125X
Inner conductor		Cu	Cu	Cu
Diameter	mm	1.00	1.25	1.25
Dielectric		PEAS	PEAS	PEAS
Diameter	mm	4.50	5.50	5.50
Outer conductor (Tape)		Cu	Cu	Cu
Tape coverage	%	100	100	100
Braid		Cu	Cu	Cu
Braid coverage	%	55	50	50
Diameter over Braid	mm	5.02	6.20	6.20
Outer Sheath		PE/PP	PE	PE/PP
Colour		Green	Black	Green
Diameter	mm	7.90	8.00	9.60
Min bending radius		50 / 100	40 / 80	50 / 100
Indoor / outdoor	mm			
Pulling Strength		120N	150N	150N
Min. Operating Temp.	(°C)	-40°C / +80°C	-40°C / +80°	-40°C / +80°C
Weight	Kg/1000m	55	61	82

Please also refer to our dedicated CCTV/Security Section 5 of this catalogue.

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FOAM DIELECTRIC DIGITAL COAXIAL

digital

ELECTRICAL DATA		DFD100/QF100 DBF100 DFD100 TWIN	DFD125 QF125 DBF125	DFD165 QF165 DBF165	QF233 DBF233		
Impedance	Ohm	75 ±3	75 ±3	75 ±3	75 ±3		
Velocity ratio	%	82	82	84	84		
Capacitance	pF/m	54	55	53	53		
Attenuation dB/100m		Actual	CAI Limit	Actual	CAI Limit	Actual	CAI Limit
(@20°C±5%)	5Mhz	1.6	1.6	1.1	1.5	0.7	1.0
	50Mhz	4.1	4.6	3.4	3.5	2.6	3.0
	100Mhz	5.8	6.5	4.8	5.0	3.7	4.0
	200Mhz	8.4	9.5	7.0	7.5	5.4	6.0
	300Mhz	10.3	11.6	8.7	-	6.8	-
	460Mhz	12.8	15.0	10.8	11.5	8.4	9.0
	860Mhz	18.0	19.5	15.1	15.5	11.8	12.5
	1000Mhz	19.6	21.5	16.4	17.0	12.8	13.5
	1350Mhz	22.9	25.0	19.5	-	14.9	-
	1750Mhz	26.3	39.0	22.5	-	17.2	19.0
	2150Mhz	29.9	32.5	25.6	26.0	19.2	22.0
	2400Mhz	31.6	-	27.0	-	20.4	-
	3000Mhz	35.3	-	30.2	-	23.0	-
Conductor Resistance							
Inner	Ohm/Km	22.5		14.0		8.5	
Outer	Ohm/Km	14.2		8.5		9.5	
Structural Return Loss SRL							
from 5 to 470MHz	dB	>23		>30		>30	>23
from 470 to 862MHz	dB	>20		>28		>28	>20
from 862 to 2150MHz	dB	>18		>26		>26	>20
Screening Attenuation							
from 30 to 1000MHz	dB	>85		>85		>80	>85
from 1000 to 2150 MHz	dB	>85		>75		>80	>85



CONSTRUCTION DATA		DFD100 QF100	DBF100	DFD100 TWIN	DFD125 QF125	DBF125	DFD165 QF165	DBF165	QF233	DBF233
Inner conductor		Cu	Cu	Cu	Cu	Cu	Cu	Cu	Cu	Cu
Diameter	mm	1.00	1.00	1.00	1.25	1.25	1.63	1.63	2.20	2.20
Dielectric		FoamPE	FoamPE	FoamPE	Foam PE	Foam PE	Foam PE	Foam PE	Foam PE	Foam PE
Diameter	mm	4.70	4.70	4.70	5.40	5.40	7.20	7.20	9.90	9.90
Outer conductor (Tape)		Cu	Cu	Cu	Cu	Cu	Cu	Cu	Cu	Cu
Tape coverage	%	100	100	100	100	100	100	100	100	100
Braid		Cu/Pet	Cu/Pet	Cu/Pet	Cu/Pet	Cu/Pet	Cu/Pet	Cu/Pet	Cu/Pet	Cu/Pet
Braid coverage	%	54	54	54	49	49	65	65	55	55
Diameter over Braid	mm	5.23	5.23	5.23	6.10	6.10	7.80	7.80	10.50	10.50
Flooding Compound		n/a	n/a		n/a	n/a	PJ	PJ	PJ	PJ
Outer Sheath		PVC		PVC	PE		PE		PE	
Colour		Black / Brown / White	Green	Black	Black	Green	Black	Green	Black	Green
Other Sheath options		LSZH	-	-	LSZH	-	LSZH	-	LSZH	-
Diameter	mm	6.65	7.90	6.65 x2	7.80		10.10		12.70	
Min bending radius		70	80	70	75	100	100	120	150	200
Indoor / outdoor										
Pulling Strength	N	90N	90N	90N	250N	250N	300N	300N	600N	600N
Min. Operating Temp.	(°C)	-40°C / +80°C	-40°C / +80°C	-40°C / +80°C	-40°C / +80°C	-40°C / +80°C	-40°C / +80°C	-40°C / +80°C	-40°C / +80°C	-40°C / +80°C
Weight	Kg/1000m	45	55	95	53	74	88	106	133	164

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Also Available: DIG5/E (5x 1.0mm Satellite Coax + 4.00mm² Earth) Ø19.6mm

Glossary: Cu: Plain Copper DB: Direct Burial Foam PE: Gas Injected Foam PE: Polyethylene PP: Polypropylene PVC: Polyvinyl Chloride



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50 OHM MICROWAVE / RF COAXIAL

A RANGE OF HIGH FREQUENCY, LOW LOSS 50 OHM COAXIAL CABLES



MICROWAVE CABLE

Super Low Loss high performance up to 6GHz

- Applications
- Cellular, GPS, WLL, WLAN, LMDS, MMDS, LMR applications.
 - Short Antenna Feeder Assemblies

RADIO FREQUENCY CABLE

Super Low Loss high performance up to 8.8GHz

Glossary:

Alu: Aluminium

CCA: Copper Clad Aluminium

Cu: Plain Copper

CuSn: Tinned Copper

Foam PE: Gas Injected Foam

PE: Polyethylene

CONSTRUCTION DATA	RF240	RF300	RF400	RF50 1/2"	RF50 7/8"
Inner conductor	Cu	Cu	Cu	CCA	CCA
Diameter mm	1.42	1.78	2.74	4.80	8.90
Dielectric	Foam PE	Foam PE	Foam PE	Foam PE	Foam PE
Diameter mm	3.81	4.85	7.25	12.20	22.50
Outer conductor (Tape)	Bonded Alu	Bonded Alu	Bonded Alu	Corrugated Cu	Corrugated Cu
Tape coverage %	100	100	100	13.80	24.90
Braid	Cu/Sn	Cu/Sn	Cu/Sn	n/a	n/a
Screen Effectiveness	>90dB	>90dB	>90dB		
Outer Sheath	PE	PE	PE	PE	PE
Diameter mm	6.1	7.6	10.16	15.80	27.30
Min bending radius mm	20	23	25	Single: 70 Repeated: 125 Moving: 350	Single: 120 Repeated: 250 Moving: 500
Pulling Strength N	300N	600N	600N	1130N	1470N
Min. Operating Temp. °C	-30°C / +80°C	-30°C / +80°C	-30°C / +80°C	-55°C / +85°C	-55°C / +85°C
Weight Kg/1000m	50	76	132		

ELECTRICAL DATA	RF240	RF300	RF400	RF50 1/2"	RF50 7/8"
Impedance Ohm Ω	50 ±2	50 ±2	50 ±2	50 ±1	50 ±1
Capacitance pF/m	80	75	78	75.8	75
DC Resistance					
Inner Ohm/Km	<11	<7	<4.3		
Outer Ohm/Km	<13	<9	<5.9		
Attenuation dB/100m					
(@20°C±5%) 150Mhz	9.9	8.3	5.3	2.67	1.47
900Mhz	25.6	20.9	13.7	6.87	3.88
1800Mhz	36.8	28.7	18.1	10.10	5.75
2000Mhz	38.9	30.3	21.2	10.70	6.11
2500Mhz	43.7	34.2	24.1	12.10	6.95
5000Mhz				18.00	10.60
5800Mhz	68.9	54.2	39.3		-
6000Mhz	70.1	58.0	40.1	20.10	-
8000Mhz				23.80	-
8800Mhz				25.20	-
Cut off frequency	31GHz	24.5GHz	16.2GHz	8.8GHz	5GHz
Standards (IEC/CEI)	IEC60096	IEC60096	IEC60096		
Ericsson 1301 Equivalent			T2C500 32		
Times Microwave Equivalent	LMR240	LMR300	LMR400		
Andrew Equivalent				LDF4-50A	LDF5-50A
Vodafone Approved Manufacturer			Yes	Yes	Yes



Please refer to page 1:1 for details of our other 50 Ohm Cables (RG58, RG174, RG178, RG213, RG214, RG223, RG316)

A far larger range of RF Coaxials is available. We can also arrange for pre-terminated lengths to be manufactured & delivered direct to site ready for immediate installation on mast antennas.

Radiating Coaxial Cable is also available. Please ask for our dedicated catalogue.

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1:5

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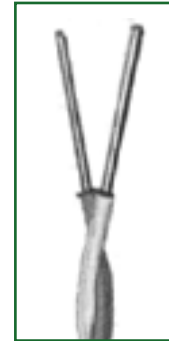




TELECOM – INTERNAL

EQUIPMENT WIRE CW1109

2 WIRE JUMPER	<p>2 cores, 1/0.5mm, PCW, PVC insulated, twisted to form a pair.</p> <p>Available as:</p> <ul style="list-style-type: none">• Black / Red• Black / Yellow• Blue / Red• Blue / White• Blue / Yellow• Green / White• Red / White <p>Many other colour combinations can be manufactured to order. Also available to CW1257 specification (irradiated PVC).</p>
4 WIRE JUMPER	<p>4 cores as above, twisted to form a quad. Core colours Red / White / Green / Black.</p>



MULTIPAIRS

CW1308	<p>1/0.5mm, PCW, bi-colour PVC insulation, twisted to form a pair, laid up, PVC Sheathed. White or Black. Available from 1 pairs to 320 pairs + earth.</p> <p>Full Colour Code Chart, Weight & Diameter information on page R:4</p> <p><i>Please refer to page 2:2 for CW1308B – Internal/External LSZH</i></p>
CW1600	<p>Limited fire hazard 1/0.5mm, PCW, bi-colour PE insulation, Aluminium/Mylar tape Screen, fire barrier tape*, overall LSZH Sheath. White.</p> <p>Available from 3 to 100 pairs + earth.</p> <p><i>* Fire barrier tape present only in 10 pair & above</i></p> <p>Full Colour Code Chart on page R:4</p>



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CW1308B

1/0.5mm, PCW, bi-colour PVC insulation, twisted to form a pair, laid up, Aluminium moisture barrier/Screen (with 0.8mm tinned Copper Drain Wire), external grade LSZH Sheath. Black.

- Includes integral earth wire
- Available from 10 to 320 pairs

CW1128

1/0.5mm, PCW, cellular PE insulation, twisted to form a pair, laid in unit construction, petroleum jelly (PJ) filled, black PE Sheath.

- Available from 5 to 100 pairs
- Also available with 0.9mm conductor
- Weight & Diameter information on page R:4

CW1128/1198 ARMoured

1/0.5mm, PCW, cellular PE insulation, twisted to form a pair, laid in unit construction, petroleum jelly (PJ) filled, black PE bedding, Steel Wire Armoured (SWA), overall black PE Sheath.

- Available from 5 to 100 pairs
- Also available with 0.9mm conductor
- Weight & diameter information on page R:4

CW1128/1252 CAtenary

As per CW1128 specification – Manufactured in a ‘Fig 8’ construction to include an integral catenary wire to facilitate suspension between buildings or telegraph poles.

CW1236

1/0.5mm, PCW, cellular PE insulated, twisted to form a pair, laid into units & assembled to form the cable core, petroleum jelly filled, Aluminium/Polyethylene laminate Screen/moisture barrier, overall black PE Sheath.

- Available from 200 to 3200 pairs

DROPWIRE #10A

2 pair – 1/0.5mm, TCW, PVC insulated, twisted to form a pair, laid up incorporating 3 insulated brass plated steel strength members, overall black HDPE Sheath (to CW1378).

3 pair (Dropwire #11) – As per 2 pair version. Manufactured to include an extra telecom pair.



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TELECOM CABLES

LINE CORDAGE - CW1311

Generally to CW1311, 4 & 6 core.

7/0.15mm, TACW, PVC insulated, laid parallel, PVC Sheathed to give a "D" shape cross section.

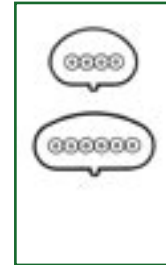
Available in white & grey from stock, other colours made to order.

Core Colours:

4 Wire – Wht / Grn / Blu / Red

6 Wire – Blk / Wht / Grn / Blu / Red / Org

- Other core colours can be made to order
- Tinsel conductors available made to order



FLAT CORDAGE

7/0.15mm, TACW, PVC insulated, laid parallel, PVC Sheathed to give a flat cross section. Available in white or grey from stock. Many other colours available made to order.

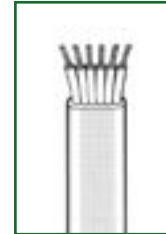
Core Colours (FCC68):

4 Wire – Blk / Red / Grn / Yel

6 Wire – Wht / Blk / Red / Grn / Yel / Blu

8 Wire – Made to order.

- Other core colours – including S1620 – made to order



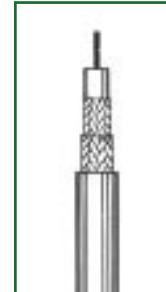
TELECOM COAX

A range of 75 Ohm (Ω) coaxials to British Telecom specification CW1229C & CW1383A.

The range includes:

• CW1229C: 2001, 2002, 2003

• CW1383A: 3001, 3002, 3002x8, 3002x16



CW1370 SYSTEM X

1/0.4mm Plain Copper Conductor, Foam PE Insulation, double overall Aluminium Foil Screen with 1/0.4mm Drain Wire, White PVC Sheath

- LSF Sheath also available

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PRODUCT RANGE

CABLE DESCRIPTION	SHEATH COLOUR	LENGTHS AVAILABLE
UTP - UNSCREENED		
UTP, Cat5e, 4 Pair, Solid CCA Conductor, PVC Sheath	Grey	100m Coil 305m Reelex
UTP, Cat5e, 4 Pair, Solid CCA Conductor, LSZH Sheath	Purple	305m Reelex
UTP, Cat5e, 4 Pair, Solid CCA Conductor, UV PE Sheath	Black	305m Reelex
UTP – UNSCREENED PREMIUM GRADE		
UTP, Cat5e, 4 Pair, Solid Pure Copper Conductor, PVC Sheath	Grey	305m Reelex
UTP, Cat5e, 4 Pair, Solid Pure Copper Conductor, PVC Sheath	Blue	305m Reelex
UTP, Cat5e, 4 Pair, Solid Pure Copper Conductor, PVC Sheath	Green	305m Reelex
UTP, Cat5e, 4 Pair, Solid Pure Copper Conductor, PVC Sheath	Red	305m Reelex
UTP, Cat5e, 4 Pair, Solid Pure Copper Conductor, PVC Sheath	Yellow	305m Reelex
UTP, Cat5e, 4 Pair Patch, Stranded Pure Copper Conductor, PVC Sheath	Grey	305m Reelex
UTP, Cat5e, 4 Pair, Solid Pure Copper Conductor, LSZH Sheath	Grey Purple	305m Reelex
UTP, Cat5e, 4 Pair, Solid Pure Copper Conductor, UV PE Sheath	Black	305m Reelex Cut to length
UTP, Cat5e, 4 Pair, Solid Pure Copper Conductor, Direct Burial Sheath	Black	Cut to length
UTP, Cat5e, 4 Pair, Solid Pure Copper Conductor, Steel Wire Armoured (SWA)	Black	Cut to length
UTP, Cat5e, 12 Pair, Solid Pure Copper Conductor, UV PE Sheath	Black	Cut to length
UTP, Cat5e, 12 Pair, Solid Pure Copper Conductor, LSZH Sheath	Purple	Cut to length
UTP, Cat5e, 25 Pair, Solid Pure Copper Conductor, UV PE Sheath	Black	Cut to length
UTP, Cat5e, 25 Pair, Solid Pure Copper Conductor, LSZH Sheath	Purple	Cut to length
FTP – FOIL SCREENED		
FTP, Cat5e, 4 Pair, Solid CCA Conductor, PVC Sheath	Grey	305m Reelex
FTP – FOIL SCREENED PREMIUM GRADE		
FTP, Cat5e, 4 Pair, Solid Pure Copper Conductor, PVC Sheath	Grey	305m Reelex
FTP, Cat5e, 4 Pair, Solid Pure Copper Conductor, LSZH Sheath	Purple	305m Reelex
FTP, Cat5e, 4 Pair, Solid Pure Copper Conductor, UV PE Sheath	Black	305m Reelex

A range of Outlets, Patch Panels, Patch Leads, and Cabinets is also available; please ask for details.

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CATEGORY 6 (250MHZ)

PRODUCT RANGE

CABLE DESCRIPTION	SHEATH COLOUR	LENGTHS AVAILABLE
UTP - UNSCREENED		
UTP, Cat6, 4 Pair, Solid CCA Conductor, PVC Sheath	Grey	305m Reelex
UTP – UNSCREENED PREMIUM GRADE		
UTP, Cat6, 4 Pair, Solid Pure Copper Conductor, PVC Sheath	Grey	305m Reelex
UTP, Cat6, 4 Pair, Solid Pure Copper Conductor, LSZH Sheath	Purple	305m Reelex
UTP, Cat6, 4 Pair, Solid Pure Copper Conductor, UV PE Sheath	Black	305m Reelex <i>Cut to length</i>
UTP, Cat6, 4 Pair, Solid Pure Copper Conductor, Steel Wire Armoured (SWA)	Black	<i>Cut to length</i>
FTP – FOIL SCREENED PREMIUM GRADE		
FTP, Cat6, 4 Pair, Solid Pure Copper Conductor, PVC Sheath	Grey	305m Reels
FTP, Cat6, 4 Pair, Solid Pure Copper Conductor, PVC Sheath	Purple	305m Reels
FTP, Cat6, 4 Pair, Solid Pure Copper Conductor, UV PE Sheath	Black	305m Reels



CATEGORY 6A (500MHZ)

CABLE DESCRIPTION	SHEATH COLOUR	LENGTHS AVAILABLE
UTP		
U-FTP, Cat6A, 4 Pair, Solid Pure Copper Conductor, LSZH Sheath	Blue	500m Reels

A range of Outlets, Patch Panels, Patch Leads, and Cabinets is also available; please ask for details.

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SINGLE PAIR CABLES



UNSCREENED

TCW, PVC insulated, 2 cores twisted to form a pair, grey PVC Sheath.
 • Grey LSF Sheath also available

CONDUCTOR SIZE	QING REF #	EQUIVALENTS			Ø MM
		BELDEN	CAROL	ALPHA	
22AWG	USC2/22	8442	C6348	5210/2	4.30
22AWG	USC2/22LSF				4.30
20AWG	USC2/20	8205	C6351	1895 / 5051	4.50
20AWG	USC2/20LSF				4.50
16AWG	USC2/16	8471	C2405	5072	6.90
16AWG	USC2/16LSF				6.90
14AWG	USC2/14	8473			8.70
14AWG	USC2/14LSF				8.70

SCREENED

TCW, PVC insulated, 2 cores twisted to form a pair, overall Foil Screen with Drain Wire, grey PVC Sheath

- Grey LSF Sheath also available
- Purple LSZH Sheath may also be available
- Black UV Resistant PE Sheath may also be available

CONDUCTOR SIZE	QING REF #	EQUIVALENTS			Ø MM
		BELDEN	CAROL	ALPHA	
14AWG	OSP1/14	8720			9.00
14AWG	OSP1/14LSF				9.00
16AWG	OSP1/19	8719	C2536	2471	7.88
16AWG	OSP1/19LSF				7.88
16AWG	OSP1/19LSZH				7.88
18AWG	OSP1/60	8760	C2534	2421	5.65
18AWG	OSP1/60LSF				5.65
18AWG	OSP1/60LSZH				5.65
18AWG	OSP1/60PE				5.65
20AWG	OSP1/62	8762	C2524	2412C	5.20
20AWG	OSP1/62LSF				5.20
22AWG	OSP1/61	8761	C2514	2404	4.48
22AWG	OSP1/61LSF				4.48
22AWG	OSP1/61LSZH				4.48

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OVERALL SHIELDED CORES

DESCRIPTION

18 AWG (19x0.25), TCW, PVC insulated, Aluminium/Polyester Foil Shield, with 18 AWG (19/0.25) TCW Drain Wire, grey PVC Sheath. Grey LSF Sheath also available.

CORES	QING REF #	EQUIVALENTS			Ø MM
		BELDEN	CAROL	ALPHA	
3	OSC3/18	8770			6.25
3	OSC3/18LSF				6.25
4	OSC4/18	9418			6.29
4	OSC4/18LSF				6.29



24 AWG (7x0.19), TCW, PVC insulated, Aluminium/Polyester Foil Shield, with 24 AWG (7/0.19) TCW Drain Wire, grey PVC Sheath.

- Grey LSF Sheath also available
- Purple LSZH Sheath also available

CORES	QING REF #	EQUIVALENTS			Ø MM
		BELDEN	CAROL	ALPHA	
3	OSC3	9533	C0741	5093	4.27
4	OSC4	9534	C0742	5094	4.83
4	OSC4LSF				4.83
6	OSC6	9536	C0743	5096	5.46
6	OSC6LSF				5.46
6	OSC6LSZH				5.46
8	OSC8	9538	C0744	5098	5.84
8	OSC8LSF				5.84
8	OSC8LSZH				5.84
10	OSC10	9540	C0745	5100	6.35
10	OSC10LSF				6.35
15	OSC15	9541	C0746	5100/15	7.37
20	OSC20	9542	C0747	5100/20	8.13
25	OSC25	9543	C0748	5100/25	9.14

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DESCRIPTION

24 AWG (7/0.19) TCW conductor, PVC insulated, twisted pairs, overall Aluminium/Polyester Foil Shield, with 24 AWG (7/0.19) TCW Drain Wire, grey PVC Sheath

- Grey LSF Sheath also available
- Purple LSZH Sheath also available
- Black UV Resistant PE (External) Sheath also available

PAIRS	QING REF #	EQUIVALENTS			Ø MM
		BELDEN	CAROL	ALPHA	
1	OSP1	9501	C0600	5471C	3.96
1	OSP1LSF				3.96
2	OSP2	9502	C0601	5472C	5.64
2	OSP2LSF				5.64
2	OSP2LSZH				5.64
3	OSP3	9503	C0602	5473C	5.89
3	OSP3LSF				5.89
3	OSP3PE				6.00
4	OSP4	9504	C0603	5474C	6.73
4	OSP4LSF				6.73
4	OSP4LSZH				6.73
6	OSP6	9506	C0605	5476C	7.49
6	OSP6LSF				7.49
6	OSP6PE				8.00
8	OSP8	9508	C0607	5478C	8.38
8	OSP8LSF				8.38
8	OSP8LSZH				8.38
10	OSP10	9510	C0609	5480C	9.65
10	OSP10LSF				9.65
15	OSP15	9515	C0610	5480/15C	10.80
15	OSP15LSF				10.80
19	OSP19	9519	C0611	5480/19C	11.68
19	OSP19LSF				11.68
25	OSP25	9525	C0612	5480/25C	13.08

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FOIL & BRAID SHIELDED PAIRS

DESCRIPTION

24 AWG (7/0.2) TCW conductor, PE insulated, twisted pairs, overall Aluminium/Polyester Foil Shield, with 24 AWG (7/0.2) TCW Drain Wire, overall TCW Braid Screen (90% coverage), grey PVC Sheath.

- Grey LSF Sheath also available
- Black UV Resistant PE Sheath also available

PAIRS	QING REF #	EQUIVALENTS			Ø MM
		BELDEN	CAROL	ALPHA	
1	OFB1	9841	C0841	-	5.90
1	OFB1LSF				5.90
2	OFB2	9842	C0842	-	8.60
2	OFB2LSF				8.60
2	OFB2PE				8.60
3	OFB3	9843			9.20
3	OFB3LSF				9.20
4	OFB4	9844			9.90
4	OFB4LSF				9.90



24 AWG (7/0.2) TCW conductor, PE insulated, twisted pairs, overall Aluminium/Polyester Foil Shield, with 24 AWG (7/0.2) TCW Drain Wire, overall TCW Braid Screen (65% coverage), grey PVC Sheath. • Grey LSF Sheath also available

PAIRS	QING REF #	EQUIVALENTS			Ø MM
		BELDEN	CAROL	ALPHA	
2	OFB2/65	8102			6.85
2	OFB2/65LSF				6.85

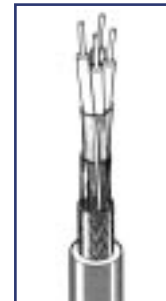
28 AWG (7/0.13) TCW conductor, PE insulated, twisted pairs, overall Aluminium/Polyester Foil Shield, with 28 AWG (7/0.13) TCW Drain Wire, overall TCW Braid Screen (65% coverage), grey PVC Sheath. • Grey LSF Sheath also available

PAIRS	QING REF #	EQUIVALENTS			Ø MM
		BELDEN	CAROL	ALPHA	
2	OFB2/28/65	8132			5.60
2	OFB2/28/65LSF				5.60

INDIVIDUAL & OVERALL SCREENED PAIRS

22 AWG (7x30) TCW conductor, PP insulated, twisted pairs, individual Aluminium/Polyester Foil Shield with 24 AWG (7x32) TCW Drain Wire, overall Aluminium/Polyester Foil Shield, grey PVC Sheath. • Grey LSF Sheath also available

PAIRS	QING REF #	EQUIVALENTS			Ø MM
		BELDEN	CAROL	ALPHA	
2	I/OSP2	8728	-	-	5.50
2	I/OSP2LSF				5.50



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INDIVIDUALLY SHIELDED PAIRS

DESCRIPTION



22AWG (7/0.25) TCW conductor, polypropylene insulated, individually Aluminium/Polyester Foil Shield (on common axis) 24AWG (7/0.19) common Drain Wire, grey PVC Sheath.

Also Available:

- Grey LSF Sheath
- Purple LSZH Sheath
- Black UV Resistant PE Sheath
- Green Direct Burial Sheath
- Steel Wire armoured / black PE Sheath

PAIRS	QING REF #	EQUIVALENTS			Ø MM
		BELDEN	CAROL	ALPHA	
2	ISP2	8723	C1352	2466	4.20
2	ISP2LSF				4.20
2	ISP2LSZH				4.20
2	ISP2PE				4.40
2	ISP2DB				7.40
2	ISP2SWA/LSF				10.70

20 AWG (7/0.3) TCW conductor, PVC insulated, twisted pairs, individual Aluminium/Polyester Foil Shield, with 22 AWG (7/0.3) TCW Drain Wire, Grey PVC Sheath • Grey LSF Sheath also available

2	ISP2/20	9420			7.62
2	ISP2/20LSF				7.62



22AWG (7/0.25) TCW conductors, PE insulated, twisted pairs, each pair individually shielded with Aluminium/Polyester Foil Tape & 24AWG (7/0.20) TCW Drain Wire, grey PVC Sheath.

• Grey LSF Sheath also available • Black External UV Resistant PE Sheath also available.

3	ISP3	8777	C6040	6010	6.93
3	ISP3LSF				6.93
3	ISP3PE				6.93
6	ISP6	8778	C6041	6012	9.19
6	ISP6LSF				9.19
9	ISP9	8774	C6042	6014	10.92
11	ISP11	8775	C6043	6016	12.07
12	ISP12	9768	C6059	6017	12.07
15	ISP15	8776	C6044	6018	14.35
17	ISP17	9769	C6060	6019	15.11
19	ISP19	8769	C6045	6020	15.11
27	ISP27	8773	C6046	6022	17.69

22AWG (7/0.25) TCW conductors, PE insulated, twisted pairs, each pair individually shielded with Aluminium/Polyester Foil Tape & 24AWG (7/0.20) TCW Drain Wire, grey PVC Sheath.

• Grey LSF Sheath also available • Black External UV Resistant PE Sheath also available.

2	ISP2E	9729	C0910	-	8.10
2	ISP2E LSF				8.10
3	ISP3E	9730	C0911	6073	8.50
3	ISP3E LSF				8.50
4	ISP4E	9728	C0912	6073C	9.25
4	ISP4E LSF				9.25

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DATA COAX & TWINAX

THIN ETHERNET	50Ω Coaxial - for Thinwire Ethernet systems (10base2), manufactured to meet the requirements of IEEE 802.3 20 AWG (19/0.32) TCW, cellular PE insulated, Al tape & 93% TCWB Screen, grey PVC Sheath. Ø 4.80mm. <ul style="list-style-type: none">• Also available in LSF.• Equivalent to Belden 9907
TWIN207	100Ω Twinax – IBM 7362211 Type 20AWG (7/28) (1 core PCW, 1 Core TCW), PE insulated, Al tape, TCWB Screen, PVC Sheath. Ø 8.38mm <ul style="list-style-type: none">• Also available in LSF• Equivalent to Belden 9207
TWIN272	78Ω Twinax – Similar to IBM 5165886 Type 20AWG (7/28) TCW, PE insulated, TCWB Screen, blue PVC Sheath, Ø 6.20mm. <ul style="list-style-type: none">• Also available in LSF• Equivalent to Belden 9272



For information on RG Coax, please refer to page 1:1

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MULTICORE INSTRUMENTATION CABLES



DEFENCE STANDARD 61-12 PARTS 4&5

A range of multicore cables to Defence Standards. Used for signal transmission over a variety of applications. Not to be used for direct connection to mains supply.

7-1- _C	7/0.1mm TCW, PVC Insulated, TCWB Screen, PVC Sheathed. 250V Sub-Miniature. To Defence Standard 61-12 Pt 4 <i>Available in the following core configurations - 2,3,4,6,9,12,15,18,25,36</i>
7-2- _A	7/0.2mm TCW, PVC Insulated, PVC Sheathed. 440V Sub-Miniature. To Defence Standard 61-12 Pt 4. <i>Available in the following core configurations - 2,3,4,6,12,18,25,36</i>
7-2- _C	7/0.2mm TCW, PVC Insulated, TCWB Screen, PVC Sheathed. 440V Sub-Miniature. To Defence Standard 61-12 Pt 4. <i>Available in the following core configurations - 2,3,4,6,8,10,12,15,18,25,36</i> <i>Also available with Black LSF Sheath</i>
7-2- _S	7/0.2mm TCW, PVC Insulated, Alu Foil Screen, PVC Sheathed. 440V Sub-Miniature. <i>Available in the following core configurations - 2,3,4,6,8,10,12,15,18,25,36</i> <i>7 & 12 Core also available with Black Direct Burial Sheath</i>
7-2- _D	7/0.2mm TCW, PVC Insulated, Individually TCWB Screen, PVC Sheathed. 440V Sub-Miniature. To Defence Standard 61-12 Pt4 <i>Available in the following core configurations - 2,3,4,6,12,18,25,36</i>
16-2- _A	16/0.2mm TCW, PVC Insulated, PVC Sheathed. 440V Cores. To Defence Stan 61-12 Pt 5. <i>Available in the following core configurations - 2,3,4,6,12,18,25</i>
16-2- _C	16/0.2mm TCW, PVC insulated, TCWB Screen, PVC Sheathed. 440V Cores. To Defence Standard 61-12 Pt 5 <i>Available in the following core configurations - 2,3,4,6,10,12,15,25,36</i> <i>Also available with Black LSF Sheath</i>
16-2- _D	16/0.2mm TCW, PVC insulated, Individually TCWB Screen, PVC Sheathed. 440V Cores. To Defence Standard 61-12 Pt 5 <i>Available in the following core configurations - 2,3,4,6,7,12,18,25</i>
37-3- _P	37/0.315mm, TCW, PVC Insulated, PVC Sheathed. 440V Cores. To Defence Standard 61-12 Pt5 <i>2 Core (Flat), 4 Core (Circular)</i>
37-3- _R	37/0.315mm, TCW, PVC Insulated, TCWB, PVC Sheathed. 440V Cores. To Defence Standard 61-12 Pt5. <i>2 Core (Flat), 4 Core (Circular)</i>
TYPE B	TCW Conductors, PVC Insulated, PVC Sheathed, Overall TCWB Screen left bare.

All cables can be manufactured with any Sheath colour and Sheath printing you require.

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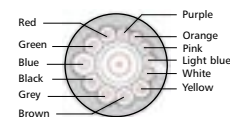
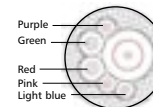
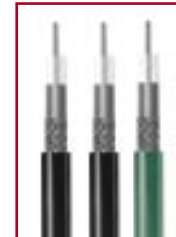


CCTV COAXIALS

DESCRIPTION

A range of coaxial cable suited for CCTV installations

RG59	<p>75Ω Coaxial. (1/0.58) CCSW, solid PE insulation, Braided Screen, black or white PVC Sheathed. Ø 6.20mm.</p> <p>Available from stock in the following options:</p> <ul style="list-style-type: none">• Pure Copper Conductor RG59• LSF (Black Low Smoke & Fume) Ø 6.20mm• LSZH (Black Low Smoke Zero Halogen) Ø 6.20mm• PE (Black UV Resistant Polyethelene – Light Duty External) Ø 6.20mm• DB (Direct Burial Ø 7.40mm)• SWA (Steel Wire Armour Ø 11.00mm) <p>Also available from stock:</p> <ul style="list-style-type: none">• RG59mini (0.41mm Conductor, Ø 3.60mm)• RG59 + 2 Cores (0.75mm²) Fig.8 / Shotgun Composite LSF Sheath• RG59 + 4 Cores (0.5mm²) Concentric Composite LSF Sheath (Ø 9.80mm)
URM70	<p>75Ω Coaxial. (7/0.19) PCW, solid PE insulated PCWB Screen, black PVC Sheath. Ø 5.80mm.</p> <p>Available from stock in the following options:</p> <ul style="list-style-type: none">• LSF (Low Smoke & Fume) Ø 5.80mm• LSZH (Low Smoke Zero Halogen) Ø 5.80mm• DB (Direct Burial Ø 8.00mm)• SWA (Steel Wire Armour Ø 10.60mm) <p>Also available from stock:</p> <ul style="list-style-type: none">• URM70 + 2 Cores (0.75mm²) Fig.8 / Shotgun Composite LSF Sheath
EXTENDED DISTANCE	<p>High quality, high performance, low loss 75Ω coaxial, ideal for longer runs. Available in a variety of conductor sizes: 1.00mm, 1.25mm, 1.65mm</p> <ul style="list-style-type: none">• PVC or PE Sheath suitable for internal / light duty external installations where longer runs are required. QC125S DFD100, QF125, QF165• DB: Thick PE/PP composite Sheath suitable for heavy-duty direct burial or duct installations. Ideal for perimeter surveillance. DB100, DB125.
VIDEO DOOR ENTRY COMPOSITES	<p>Two Coaxial + Multicore Composite cables for Video Door Entry.</p> <p>VEC6 - 75Ω coaxial, plus 5 Cores. Overall LSF Sheath Ø 9.00mm [1x 75Ω coaxial] + [2x 1.00mm²] + [3x 0.50mm²]</p> <p>VEC13 - 75Ω coaxial, plus 12 Cores. Overall LSF Sheath Ø12.50mm [1x 75Ω coaxial] + [1x1.5mm²] + [5x 1.00mm²] + [1x0.75mm²] + [5x 0.50mm²]</p>



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5:1



DESCRIPTION

A range of multicore cables for various security applications



ALARM FLEX

7/0.19, TCW, PVC Insulated, White or Brown PVC Sheathed.
To BS4737
Available in 4, 6, 8, 12 & 20 Core

Available from stock in the following options:

- LSF Sheath – 4, 6, 8, 12 Core
- Foil Screened LSF Sheathed (with stranded Drain Wire) – 4, 6, 8, 12 Core
- LSZH Sheath
- Black External UV Resistant Sheath – 6, 8, 12 Core
- DB (Direct Burial Sheath) – 6 & 12 Core with Foil Screen

A budget range of CCA Conductor Cables is also available in 4, 6, & 8 Core.



TELECOM

A range of solid conductor telecom cables for Door Entry Systems is available.

Internal – 0.5mm Solid Conductor

CW1308 – PVC Insulated / PVC Sheathed – see page 2:1

External – 0.5mm Solid Conductor

CW1128 – Jel Filled for Duct Installations – see page 2:2

CW1128/98 – Jel Filled SWA – see page 2:2



DATA CABLE

Single Pair Cables

Available in various conductor sizes – please view page 4:1

Foil Screened Cores

Please view page 4:2

Foil Screened Pairs

Please view page 4:3

Foil & Braid Screened Pairs

Please view page 4:4

Individually Screened Pairs

Please view page 4:5. Includes Belden 8723 equivalent.

Structured Wiring / Premise Wiring Cables

Please view section 3 in our main catalogue



MAINS FLEX

Internal Power Cable

PCW Conductors, PVC Insulated, PVC Sheathed – Oval or Round

- 218_Y – Round
- 219_Y – Oval
- 318_Y – Round

LSZH Sheath

- 318_B

Please see section 7

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FIRE PERFORMANCE CABLE

DESCRIPTION

FireQing – Fixed Installation multi-core cable for installation where fire and toxic smoke and fume emissions create a potential threat to life and electronic equipment.

STANDARD - FIRE PERFORMANCE CABLE PH30

SPECIFICATION

Solid PCW, LSZH Silicone Rubber Insulated, Solid TCW Earth, Aluminium / Mylar Laminate Tape, LSZH (Low Smoke Zero Halogen) Compound Sheath.
Rated: 300/500V

Available in:

- 2, 4 Core + Earth (others available to order)
- 1.0mm, 1.5mm, 2.5mm, 4.0mm
- Red or White
- 100m Lengths. 500m Lengths also available

Core Colours:

2 Core: Brown, Blue
4 Core: Blue, Brown, Black, Grey

STANDARDS

BS7629-1
BS5839-1 clause 26.2
BS EN 50200 PH30
BS6387 Cat C, W, Z
BS EN 50267 (IEC 60754) Acid Gas Emission
BS EN 50268 (IEC 61034) Smoke Emission
BS EN 50265,50266 (IEC 60332) Flame Propagation



ENHANCED - FIRE PERFORMANCE CABLE PH120

SPECIFICATION

Solid PCW, LSZH Silicone Rubber Insulated, Solid TCW Earth, Aluminium / Mylar Laminate Tape, LSZH (Low Smoke Zero Halogen) Compound Sheath.
Rated: 300/500V

Available in:

- 2, 4 Core + Earth (others available to order)
- 1.0mm, 1.5mm, 2.5mm, 4.0mm
- Red or White
- 100m Lengths. 500m Lengths also available

Core Colours:

2 Core: Brown, Blue
4 Core: Blue, Brown, Black, Grey

STANDARDS

BS7629-1
BS5839-1 clause 26.2 Enhanced
BS EN 50200 PH120
BS6387 Cat C, W, Z
BS8434-2
BS EN 50267 (IEC 60754) Acid Gas Emission
BS EN 50268 (IEC 61034) Smoke Emission
BS EN 50265,50266 (IEC 60332) Flame Propagation
BS5266-1

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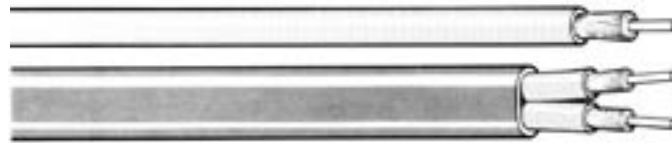
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FIBRE OPTICS

- | | |
|-----------------------|--|
| CORE SIZES | <ul style="list-style-type: none"> • 8/125 Singlemode • 50/125 Multimode • 62.5/125 Multimode |
| CONSTRUCTION | <ul style="list-style-type: none"> • Simplex • Duplex • Loose Tube • Tight Buffer |
| APPLICATION | <ul style="list-style-type: none"> • Internal • External • Universal – Internal / External |
| OTHER SERVICES | <ul style="list-style-type: none"> • Pre-Terminated Lengths • On Site Termination |



FIBRE OPTIC CABLE

	LOOSE TUBE	TIGHT BUFFERED
FIBRE MODE	62.5/125 (OM1) 50/125 (OM2) 50/125 (OM3) 9/125 (OS1)	62.5/125 (OM1) 50/125 (OM2) 50/125 (OM3) 9/125 (OS1)
Fibre Count	4f – 24f	4f – 24f

- LSZH Sheath as standard
- Loose tube can be supplied with corrugated steel tape or steel wire armour
- Multi loose tube also available

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FIBRE OPTICS

FIBRE OPTIC PATCHCORDS

STANDARD LENGTHS	0.5m, 1m, 2m, 3m, 5m, 10m, 15m, 20m MTRJ, ST, SC, LC, FC in any combination
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COLOURS	<ul style="list-style-type: none">• Singlemode - yellow• 50/125 - orange• 62.5/125 - grey
----------------	---

- Duplex as standard
- Other lengths available on request



FIBRE PIGTAILS

- 9/125, 50/125, OM3 & 62.5/125 available in 1m lengths
- MTRJ, FC, LC, ST & SC as standard - others available on request

A SELECTION OF FIBRE OPTIC COMPONENTS AND ACCESSORIES

ADAPTORS (IN-LINE)	Duplex MM & SM; Simplex MM & SM; MTRJ, LC, SC, FC, ST as standard
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CONNECTORS	<ul style="list-style-type: none">• Duplex MM & SM; Simplex MM & SM• LC, SC, FC, ST as standard• 3mm Boots & 900 um Boots available
-------------------	---

FIBRE PATCH PANELS	Fixed or sliding tray options; colour – black as standard; SC Duplex, LC Duplex, LC Quad, MTRJ, ST, FC, SC Simplex 2f - 96f Population; singlemode and multimode available
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- We can also supply Media Converters, Tools & Test Kits and Cabinets.

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218_Y

H03VV-F – 300/300V TO BS6500

Stranded bare Copper conductors, PVC insulated, cores twisted to form a circular cable, PVC Sheathed.

2182Y – 2 Core

2183Y – 3 Core

CONDUCTOR SIZE	CONDUCTOR STRANDING	CONDUCTOR RESISTANCE	CURRENT RATING	DIAMETER	
				2 CORE	3 CORE
0.5mm	16/0.2	39 Ohm/Km	3 Amps	5.3mm	5.6mm
0.75mm	24/0.2	26 Ohm/Km	6 Amps	5.7mm	6.1mm

2192Y

H03VVH2-F – 300/300V to BS6500

Stranded bare Copper conductors, PVC insulated, two cores laid parallel to form an oval cable, PVC Sheathed.

CONDUCTOR SIZE	CONDUCTOR STRANDING	CONDUCTOR RESISTANCE	CURRENT RATING	DIAMETER
0.5mm	16/0.2	39 Ohm/Km	3 Amps	3.3 x 5.4mm
0.75mm	24/0.2	26 Ohm/Km	6 Amps	3.4 x 5.7mm

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Q-FLEX MAINS CABLES

318_Y

H05VV-F – 300/500V TO BS6500

Stranded bare Copper conductors, PVC insulated, cores twisted to form a circular cable, PVC Sheathed.

2182Y – 2 Core

2183Y – 3 Core

3184Y – 4 Core

CONDUCTOR SIZE	CONDUCTOR STRANDING	CONDUCTOR RESISTANCE	CURRENT RATING	DIAMETER		
				2 CORE	3 CORE	4 CORE
0.75mm	24/0.2	26 Ohm/Km	6 Amps	7.0mm	7.6mm	8.1mm
1.00mm	32/0.2	19.9 Ohm/Km	10 Amps	7.4mm	8.0mm	8.6mm
1.50mm	30/0.25	13.3 Ohm/Km	15 Amps	8.4mm	9.1mm	9.8mm
2.50mm	50/0.25	7.98 Ohm/Km	20 Amps	9.8mm	10.8mm	11.4mm

318_B

H05Z1Z1-F – 300/500V

Stranded bare Copper conductors, LSZH insulated, cores twisted to form a circular cable, LSZH Sheathed.

3182B – 2 Core

3183B – 3 Core

3184B – 4 Core

CONDUCTOR SIZE	CONDUCTOR STRANDING	CONDUCTOR RESISTANCE	CURRENT RATING	DIAMETER		
				2 CORE	3 CORE	4 CORE
0.75mm	24/0.2	26 Ohm/Km	6 Amps	7.0mm	7.6mm	8.1mm
1.00mm	32/0.2	19.9 Ohm/Km	10 Amps	7.4mm	8.0mm	8.6mm
1.50mm	30/0.25	13.3 Ohm/Km	15 Amps	8.4mm	9.1mm	9.8mm
2.50mm	50/0.25	7.98 Ohm/Km	20 Amps	9.8mm	10.8mm	11.4mm

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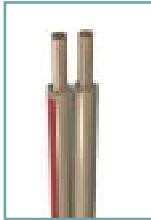
BUDGET SPEAKER CABLES

Stranded Conductors, two cores laid parallel in “shotgun” formation for ease of separation.

White PVC Sheath with black stripe marker on one core for identification.

Supplied on 100m reels.

CONDUCTOR STRANDING	APPROXIMATE CSA	DIMENSIONS	MAXIMUM CONDUCTOR RESISTANCE
13/0.2mm	0.40mm ²	2.15mm x 4.30mm	92.8 Ω/km
42/0.2mm	1.50mm ²	3.00mm x 6.00mm	28.7 Ω/km
79/0.2mm	2.50mm ²	3.50mm x 7.00mm	15.3 Ω/km



PROFESSIONAL SPEAKER CABLE

QCSound range of professional parallel speaker cables, suitable for high-end hi-fi equipment, and studio applications.

Micro fine Pure Copper (OFC) Stranded Conductors, two Cores laid parallel in “shotgun” formation for ease of separation.

Transparent Sheath with printing on one core for identification.

Stocked on 500m reels – can be cut to lengths in multiples of 50m.

CONDUCTOR STRANDING	APPROXIMATE CSA	DIMENSIONS	MAXIMUM CONDUCTOR RESISTANCE
322 Strands [7x (46x0.10mm)]	2.50mm ²	3.60mm x 7.40mm	7.98 Ω/km
511 Strands [7x (73x0.10mm)]	4.00mm ²	4.50mm x 7.90mm	4.95 Ω/km
777 Strands [7x (3x37x0.10mm)]	6.00mm ²	6.10mm x 12.50mm	3.30 Ω/km

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TWINAX & MULTICORE SPEAKER CABLES

TWINAXIAL

QCSound range of two core speaker cables suitable for high-end hi-fi equipment, rehearsal space, recording studio, and live arena applications.

Stranded Pure Copper (OFC) Conductors, PVC insulation, matt black PVC Sheath

Stocked on 500m reels for cutting into multiples of 50m as required.

CONDUCTOR STRANDING	APPROXIMATE CSA	OVERALL DIAMETER Ø	MAXIMUM CONDUCTOR RESISTANCE
50x0.25mm	2.5mm ²	7.50mm	8.00 Ω/km
56x0.30mm	4.0mm ²	11.00mm	5.00 Ω/km

Core Colours: Red / Blue



MULTICORE CABLES

QCSound range of four core speaker cables suitable for high-end hi-fi equipment (bi-wired), rehearsal space, recording studio, and live arena applications.

Stranded Pure Copper (OFC) Conductors, PVC insulation, matt black PVC Sheath

Stocked on 500m reels for cutting into multiples of 50m as required.

CONDUCTOR STRANDING	APPROXIMATE CSA	OVERALL DIAMETER Ø	MAXIMUM CONDUCTOR RESISTANCE
50x0.25mm	2.5mm ²	7.50mm	8.00 Ω/km
56x0.30mm	4.0mm ²	10.00mm	5.00 Ω/km

Core Colours: Red / Blue / Green / Yellow

MICROPHONE CABLE

Oxygen Free Copper Conductors, XLPE insulated, two cores twisted as a pair with cotton fillers, Bare Copper Lapped Screen, black abrasion resistant PVC Sheath.

100m reels.

CONDUCTOR STRANDING	APPROXIMATE CSA	OVERALL DIAMETER Ø	MAXIMUM CONDUCTOR RESISTANCE
28/0.1mm	0.25mm ²	6.35mm	84.6 Ω/km

Core Colours: Red / Blue

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RG/URM CONSTRUCTION INFORMATION



	CONDUCTOR		INSULATION		SCREEN		SHEATH		IMP. Ω	OTHER INFO
	TYPE	SIZE	TYPE	SIZE	TYPE	SIZE	TYPE	SIZE		
RG12	TCW	7/0.40	PE	7.25	PCW	8.20	PVC/SWB /PVC	11.80	75	RG11SWB
RG22	2xPCW	2x(7/0.40)	PE	7.25	2xTCW	8.70	PVC	10.8	95	TWINAX
RG23	2xPCW	2x(7/0.72)	PE	2x9.65	2xPCW	10.40/ 12x21.60	PVC	16.50x 24.00	125	TWINAX
RG24	2xPCW	2x(7/0.72)	PE	2x9.65	2xPCW	10.40/ 12x21.60	PVC/SWB /PVC	18.00x 25.50	125	TWINAX RG23SWB
RG34	PCW	7/0.62	PE	11.50	PCW	12.40	PVC	16.00	75	
RG35	PCW	1/2.65	PE	17.30	PCW	18.60	PVC/SWB /PVC	23.50	75	RG164SWB
RG63	CCS	1/0.60	PE	7.25	PCW	8.20	PVC	10.30	125	
RG65	PCW	0.21/3.30	PE	7.25	PCW	8.20	PVC	10.30	950	
RG71	CCS	1/0.60	PE	3.70	1xTCW	5.00	PE	6.20	93	
RG79	CCS	1/0.60	PE	7.25	PCW	8.20	PVC/SWB /PVC	11.80	125	RG63 SWB
RG108	2xTCW	2x(7/0.32)	PE	4.00	TCW	4.70	PVC	6.00	78	TWINAX
RG111	2xPCW	2x(7/0.4)	PE	7.25	2xTCW	8.70	PVC/SWB /PVC	12.30	95	TWINAX RG22 SWB
RG115	SPCW	7/0.75	PTFE	6.50	2xSPCW	8.00	PTFE + GSI	10.50	50	
RG122	TCW	27/0.13	PE	2.50	TCW	3.20	PVC	4.10	50	
RG130	2xPCW	2x(7/0.72)	PE	12.00	TCW	13.30	PVC	15.90	95	TWINAX
RG131	2xPCW	2x(7/0.72)	PE	12.00	TCW	13.30	PVC/SWB /PVC	17.40	95	TWINAX -RG130SWB
RG133	PCW	1/0.65	PE	7.25	PCW	8.20	PVC	10.30	95	
RG141	SCPSW	1/0.95	PTFE	2.95	SPCW	3.60	PTFE + GSI	4.80	50	URM72 Eq.
RG142	SCPCW	1/0.95	PTFE	2.95	2xSPCW	4.30	FEP	5.00	50	
RG144	SCPCW	7/0.45	PTFE	7.25	SPCW	8.00	PTFE + GSI	10.40	75	URM105 Eq.
RG164	PCW	1/2.65	PE	17.30	PCW	18.60	PVC	22.10	75	URM77 Eq.
RG165	SPCW	7/0.82	PTFE	7.25	SPCW	8.00	PTFE + GSI	10.40	50	URM102 Eq.
RG166	SPCW	7/0.82	PTFE	7.25	SPCW	8.00		11.90	50	RG165 SWB
RG177	PCW	1/0.50	PE	17.30	2xSPCW	18.80	PVC	22.70	50	
RG178	SCPSW	7/0.10	PTFE	0.84	SPCW	1.30	FEP	1.80	50	URM110 Eq.
RG179	SCPSW	7/0.10	PTFE	1.50	SPCW	2.00	FEP	2.50	75	URM111 Eq.
RG180	SCPSW	7/0.10	PTFE	2.60	SPCW	3.10	FEP	3.60	95	
RG181	2xPCW	2x(7/0.40)	PE	12.20	2xPCW	13.90	PVC	16.20	125	TWINAX
RG187	SCPSW	7/0.10	PTFE	1.50	SPCW	2.00	PTFE	2.60	75	
RG188	SCPSW	7/0.18	PTFE	1.50	SPCW	2.00	PTFE	2.60	50	
RG196	SCPSW	7/0.10	PTFE	0.84	SPCW	1.30	PTFE	2.10	50	
RG210	SCPSW	1/0.64	PTFE	3.70	SPCW	4.50	PTFE + GSI	6.20	93	
RG212	SPCW	1/1.35	PE	4.70	2xSPCW	6.20	PVC	8.50	50	
RG215	PCW	7/0.75	PE	7.25	PCW	8.20	PVC/SWB /PVC	11.80	50	RG213 SWB
RG216	TCW	7/0.40	PE	7.25	2xPCW	8.80	PVC	10.80	75	
RG217	PCW	1/2.70	PE	9.40	2xPCW	11.20	PVC	13.80	50	
RG218	PCW	1/5.00	PE	17.30	PCW	18.60	PVC	22.10	50	
RG219	PCW	1/0.50	PE	17.30	PCW	18.60	PVC/SWB /PVC	23.50	50	RG218 SWB
RG220	PCW	1/6.60	PE	23.10	PCW	24.40	PVC	28.40	50	

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RG/URM CONSTRUCTION INFORMATION



	CONDUCTOR TYPE	CONDUCTOR SIZE	INSULATION TYPE	INSULATION SIZE	SCREEN TYPE	SCREEN SIZE	SHEATH TYPE	SHEATH SIZE	IMP. Ω	OTHER INFO
RG221	PCW	1/6.60	PE	23.10	PCW	24.10	PVC/SWB /PVC	29.90	50	RG220 SWB
RG222	CNW	1/1.37	PE	4.70	2xSPCW	6.20	PVC	8.50	50	
RG224	PCW	1/2.70	PE	9.40	2xPCW	11.20	PVC/SWB /PVC	15.40	50	RG217 SWB
RG225	SPCW	7/0.82	PTFE	7.25	2xSPCW	8.80	PTFE +GSI	10.90	50	
RG226	SPCW	19/0.64	PTFE	9.40	2xPCW	10.90	PTFE +GSI	12.70	50	
RG227	SPCW	7/0.82	PTFE	7.25	2xSPCW	8.80		12.40	50	RG225 SWB
RG280	PCW	1/2.90	PTFE	8.30	2xSPCW	9.80	PVC	12.20	50	
RG302	SCPSW	1/0.64	PTFE	3.70	SPCW	4.40	FEP	5.10	75	
RG303	SCPSW	1/0.95	PTFE	2.95	SPCW	3.60	FEP	4.30	50	
RG304	SCPSW	1/1.50	PTFE	4.70	2xSPCW	6.20	FEP	7.10	50	
RG316	SCPSW	7/0.18	PTFE	1.50	SPCW	2.00	FEP	2.50	50	URM109Eq.
RG393	SPCW	7/0.80	PTFE	7.25	2xSPCW	8.80	FEP	9.90	50	
RG400	SPCW	19/0.20	PTFE	2.95	2xSPCW	4.30	FEP	5.00	50	
RG402	SCPSW	1/0.92	PTFE	3.00	PC TUBE	3.60	-	-	50	
RG403	SCPSW	7/0.10	PTFE	0.84	SPCW	1.30	FEP	1.90	50	TRI-AXIAL
					SPCW	2.40	FEP	3.10		
RG404	SCPSW	7/0.10	PTFE/HL	0.84/0.87	SPCW	1.40	FEP	1.90	50	
RG405	SCPSW	1/0.51	PTFE	1.68	PC TUBE	2.20	-	-	50	
URM54	PCW	7/0.19	PE		PCW		PVC	8.30	75	
URM57	PCW	1/1.15	PE		PCW		PVC	10.30	75	
URM64	CCS	1/0.64	PE		PCW		PVC	10.30	125	
URM65	PCW	1/1.15	PE		PCW		PVC	10.30	75	
URM72	SPCW	1/1.0	PTFE		SPCW		GFB	3.63	50	RG141 Eq.
URM74	PCW	1/5.0	PE		PCW		PVC	18.43	50	
URM76	PCW	7/0.32	PE		PCW		PVC	5.00	50	RG58 Eq.
URM90	CCS	1/0.60	PE		PCW		PVC	6.00	75	RG59 Eq.
URM91	PCW	7/0.76	PE		PCW		PVC	11.00	50	
URM95	SCPSW	1/0.46	PE		2xPCW		NYLON	2.30	50	
URM96	CCS	1/0.64	PE		PCW		PVC	6.00	95	
URM102	SPCW	7/0.82	PTFE		PCW		GFB	9.70	50	RG165 Eq.
URM104	CCS	1/0.64	PE		PCW		PVC	6.00	75	
URM105	SPCW	7/0.45	PTFE		SPCW		GFB	9.70	75	RG144 Eq.
URM106	SCPSW	1/0.65	PTFE		SPCW		FEP	5.25	75	
URM107	SPCW	7/0.82	PTFE		SCPSW		FEP	9.00	50	
URM108	SPCW	1/1.00	PTFE		SCPSW		FEP	4.50	50	
URM109	SCPSW	7/0.19	PTFE		SPCW		FE	2.45	50	RG316 Eq.
URM110	SCPSW	7/0.11	PTFE		SPCW		FEP	1.80	50	RG178 Eq.
URM111	SCPSW	7/0.10	PTFE		SPCW		FEP	2.45	75	RG179 Eq.
URM112	SPCW	7/0.76	PE		SPCW		PVC	11.00	50	RG214 Eq.
URM113	SPCW	7/0.45	PTFE		SPCW		FEP	9.00	75	
URM117	PCW	7/0.212	PE		PCW		PVC	6.00	75	

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AWG METRIC SIZE CHART



STRANDED			SOLID	
AWG	Construction	AREA (mm)	AWG	DIA (mm)
4	133/25	21.6	1	7.348
4	420/30	21.3	2	6.543
6	133/27	13.6	3	5.827
6	266/30	13.5	4	5.189
8	133/29	8.60	5	4.620
8	168/30	8.50	6	4.115
10	37/26	4.7	7	3.655
10	105/30	5.3	8	3.264
12	19/25	3.1	9	2.906
12	65/30	3.3	10	2.588
14	19/27	1.9	11	2.300
14	41/30	2.1	12	2.050
16	19/29	1.2	13	1.830
16	26/30	1.3	14	1.630
18	7/26	0.90	15	1.450
18	16/30	0.81	16	1.290
18	19/30	0.96	17	1.150
20	7/28	0.56	18	1.020
20	10/30	0.51	19	0.912
20	19/32	0.61	20	0.813
22	7/30	0.35	21	0.724
22	19/34	0.38	22	0.643
24	7/32	0.23	23	0.574
24	19/36	0.24	24	0.511
26	7/34	0.14	25	0.455
26	19/38	0.16	26	0.404
28	7/36	0.089	27	0.361
28	19/40	0.093	28	0.320
30	7/38	0.057	29	0.287
30	19/42	0.061	30	0.254
32	7/40	0.034	31	0.226
32	19/44	0.039	32	0.203
34	7/42	0.023	33	0.180
36	7/44	0.014	34	0.160

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TELECOM – COLOUR CODE CHART CW1308 & CW1600

	A WIRE		B WIRE		A WIRE		B WIRE
1	wht	blu	wht	16	yel	blu	yel
2	wht	org	wht	17	yel	org	yel
3	wht	grn	wht	18	yel	grn	yel
4	wht	brn	wht	19	yel	brn	yel
5	wht	gry	wht	20	yel	gry	yel
6	red	blu	red	21	vio	blu	vio
7	red	org	red	22	vio	org	vio
8	red	grn	red	23	vio	grn	vio
9	red	brn	red	24	vio	brn	vio
10	red	gry	red	25	vio	gry	vio
11	blk	blu	blk	26	pink	blu	pink
12	blk	org	blk	27	pink	org	pink
13	blk	grn	blk	28	pink	grn	pink
14	blk	brn	blk	29	pink	brn	pink
15	blk	gry	blk	30	pink	gry	pink



Cables over 25 pairs are laid together in units of 16,20, & 30 pairs or half units of 8,10, and 15 pairs.

These units & half units are identifiable by coloured binders. Units are then laid together to form the cable and bound with polyester tape.

WEIGHTS & DIMENSIONS (EX REELS)

PAIRS	CW1308		CW1128 0.5mm		CW1128 0.9mm		CW1198 0.5mm		CW1198 0.9mm	
	Kg	Ø	Kg	Ø	Kg	Ø	Kg	Ø	Kg	Ø
2	18	4.1								
3	24	4.8								
4	35	5.8								
5			50	6.9	147	11.5	225	10.9	360	14.5
6	46	6.8								
10	70	8.3	80	8.1	261	14.0	265	12.1	590	17.4
10+E	90	8.6								
12	80	9.1								
20	123	10.7	145	10.8	430	18.0	365	14.2	970	21.3
20+E	186	12.0								
25	163	11.4								
25+E										
30	186	12.2	351	13.5	625	21.5	560	17.0	1455	28.5
32	190	12.4								
40+E	273	15.0								
50			420	15.5	988	26.5	860	20.1	2060	31.2
50+E	352	17.0								
60+E	412	20.0								
80+E	401	22.5								
100			570	19.5	1884	36.5	1280	25.3	3290	41.5
100+E	687	27.0								

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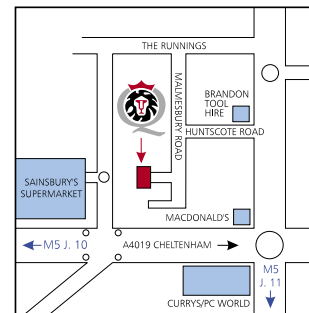
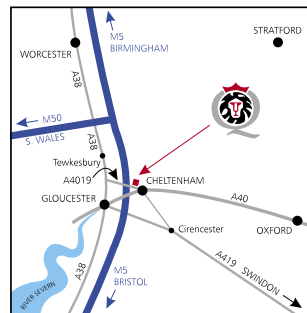
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GLOSSARY



Al	Aluminium Tape/Foil (Aluminium/Polyester/Aluminium Tape)
Cu Tape	Copper Tape/Foil
CCS	Copper Covered Steel
CCSW	Copper Covered Steel Wire
CCTV	Closed Circuit Television
CNW	Chrome Nickel Wire
DB	Direct Burial (suitable for direct burial or duct installation) – similar to RBS
FEP	Flourinated Ethylene Propylene
FRPE	Fire Retardant Polyethylene
GFB	Glass Fibre Braid
GSWB	Galvanised Steel Wire
HDPE	High Density Polyethylene
HL	Semi-conducting layer
LSF	Low Smoke & Fume
LSZH	Low Smoke Zero Halogen
MATV	Master Antenna Television
PACW	Plain Annealed Copper Wire
PC Tube	Plain Copper Tube
PCW	Plain Copper Wire
PCWB	Plain Copper Wire Braid
PE	Polyethylene
PEAS	Polyethylene Air Spaced
PTFE	Polytetrafluoroethylene
PTFE + GSI	PTFE + Glass Fibre impregnated with Silicone Varnish
PVC	Polyvinylchloride
RBS	Triple Bonded Sheath (Suitable for duct or direct burial) Similar to DB Sheath
SASPE	Semi Air Spaced Polyethylene
SMATV	Satellite Master Antenna Television
SPCW	Silver Plated Copper Wire
SPCWB	Silver Plated Copper Wire Braid
SCPSW	Silver Copper Plated Steel Wire
SWA	Steel Wire Armoured
SWB	Steel Wire Braid
TACW	Tinned Annealed Copper Wire
TCW	Tinned Copper Wire
TCWB	Tinned Copper Wire Braid

HOW TO FIND US



Qing Cables Ltd., Malmesbury Road, Kingsditch Industrial Estate,
Cheltenham, Gloucestershire GL51 9PL

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1. General

Any quotation given or order accepted by Qing Cables shall be deemed to incorporate these terms and conditions which will apply to the exclusion of any other terms and conditions. No variation of these terms and conditions shall apply unless confirmed in writing by a director of Qing Cables. The terms and conditions together with the terms and other matters contained in Qing Cables' invoice and/or quotation and/or acceptance shall constitute the whole agreement between the parties and supersede any prior promises, representations or undertakings whether written or oral. Customer conditions of purchase may not under normal circumstance be recognised. Customers terms/conditions of purchase will not under normal circumstances be observed.

2. Quotations

Quotations are valid for a period of 30 days from the date of issue unless previously withdrawn.

3. Prices and Payment

3.1 Prices quoted by Qing Cables either verbally or written are net ex works, exclusive of VAT & subject to alteration/withdrawal without notice. Carriage may be chargeable.

3.2 A stated drum length may vary and Qing Cables reserves the right to deliver 10% more or less than the quantity ordered and invoiced without any adjustment to the price quoted.

3.3 Should a design alter or a specification change on any product ordered by the Customer during the period between the order being placed and delivery, Qing Cables reserves the right to supply a product which in its opinion is similar to that which was originally ordered.

3.4 Payment must be made within 30 days of the date of the invoice. Qing Cables reserves the right to levy and interest charge at its discretion for non payment within that period. Where any sum owed by the Customer under this or any other contract with Qing Cables is overdue, Qing Cables will be entitled to cease performance of this Contract until such sum (and any interest which may be due) has been paid in full and shall further be entitled but not bound (without prejudice to any other of its rights in respect of such breach) to terminate this Contract forthwith at any time whilst such breach subsists and dispose of any goods which have been appropriated by it to the contract.

4. Delivery

4.1 Delivery of the goods shall be made to the place designated by the Customer when placing the order and agreed to by Qing Cables. The Customer shall be obliged to take delivery of the goods when they are delivered or tendered for delivery in accordance with the contract. Where the Customer wrongly refuses to accept delivery of the goods Qing Cables shall have the right (without prejudice to its other rights) to invoice the Customer in respect thereof, payment to be made within 30 days of the invoice date and/or to invoice the Customer for the cost of re-delivery, storage and all other handling costs arising directly or indirectly therefrom and it is expressly declared that it shall be reasonable for Qing Cables to effect insurance of the goods at the Customer's expense notwithstanding that the risk therein shall have passed to the Customer.

4.2 If the contract provides for delivery by instalments late delivery of one instalment shall not entitle the Customer to reject that or any other instalment under the same contract.

4.3 While Qing Cables will use all reasonable endeavours to comply with delivery dates any such date is a business estimate only in respect of which time shall not be of the essence and Qing Cables shall not be responsible for any loss or damage caused by late delivery.

4.4 Where cable is supplied on returnable drums the Customer shall return these to Qing Cables at the Customer's cost and within the time agreed.

5. Loss or damage in transit

In any case where it is established to the satisfaction of Qing Cables that the goods have been damaged or lost (whether wholly or in part) in transit Qing Cables will at its own cost repair or replace the same provided that:-

5.1 in the event of any damage to goods in transit the Customer must notify the carrier and Qing Cables in writing within 24 hours of the date of delivery. Any claim not so notified shall not be admitted. It is the Customer's responsibility to see that the goods are examined immediately upon receipt. Goods not examined at the time of receipt shall be signed for to the carrier as "unexamined". Failure to do so may invalidate any subsequent claim.

5.2 in the event of non-delivery of goods the Customer must notify the carrier and Qing Cables in writing within 24 hours of receipt of invoice or advice of dispatch whichever is the earlier otherwise claims for credit cannot be accepted.

6. Risk

6.1 The risk in the goods contracted to be sold by Qing Cables shall pass to the Customer upon delivery to the Customer.

6.2 Under no circumstances will the Vendor accept liability for consequential damages or loss arising from goods supplied by the Vendor.

7. Title

Until payment in full has been made to Qing Cables of the price and any other sums due in respect of the goods supplied:-

7.1 the property in the goods shall remain vested in Qing Cables notwithstanding the provisions of Condition 6 and the Customer shall be entitled to possession only of the goods which shall be held by the Customer in a fiduciary capacity as a bailee;

7.2 the Customer shall clearly mark or designate the goods so that they remain readily identifiable as the property of Qing Cables and shall keep and store the same separately in a proper manner without charge to Qing Cables

7.3 the Customer shall keep the goods insured against all usual risks in their full replacement value;

7.4 the Customer shall have a licence to sell and/or use the goods supplied which licence may be immediately terminated by Qing Cables at any time upon giving the Customer notice in writing of such termination provided that and without prejudice to any other rights of Qing Cables such licence shall automatically terminate if any of the events referred to in Condition 9 shall occur;

7.5 upon or at any time after the termination of the licence Qing Cables shall be entitled to recover any or all of the goods in the Customer's possession to which Qing Cables has title hereunder and for that purpose the Customer grants Qing Cables its servants or agents (with such transport as is necessary) an irrevocable licence to enter upon any premises occupied by the Customer or to which the Customer has access and where the goods may then be situated;

7.6 notwithstanding the provisions of 7.1-7.7 below the Customer shall have the right to sell the goods in the ordinary course of his/its business and Qing Cables shall be beneficially entitled to and the Customer shall be under a fiduciary duty to account to Qing Cables for the proceeds of sale to the extent of the debt due but nothing in these Conditions shall constitute the Customer an agent of Qing Cables for the purposes of such sale; and

7.7 the Company may require the Customer to assign to it absolutely the benefit of any contract and/or any right of action in respect of monies due in respect of such proceeds of sale and if so requested the Customer shall execute all documents and do all other things necessary to effect such an assignment.

7.8 Nothing in this clause shall confer any right upon the Customer to return the goods or to refuse or delay payment therefor and the remedies conferred on Qing Cables are in addition to and shall not in any way restrict or prejudice any other rights and remedies of Qing Cables.

8. Qing Cables' Liability

8.1 Qing Cables warrants that at the time of dispatch the goods shall correspond with the specification (if any) and shall be free from defects in workmanship and materials. If the goods do not so conform to their warranty Qing Cables will at its option replace or repair defects thereto or make a price adjustment that is fair to both parties or to take back the goods and refund an appropriate part of the purchase price provided that the alleged defect shall have been notified to it in writing within twelve months of delivery. The liability of Qing Cables hereunder shall in no event exceed the amount of the purchase price of the goods.

8.2 Qing Cables shall be under no liability in respect of any defect in the goods arising from any drawing design or specification supplied by the Customer.

8.3 Qing Cables shall be under no liability in respect of any defects arising from fair wear and tear, willful damage, negligence, abnormal working conditions, failure to follow Qing Cables' written instructions misuse or alteration or repair of goods without Qing Cables' approval.

8.4 Qing Cables shall be under no liability under any warranty if the total price of the goods has not been paid by the due date for payment. (Subject as expressly provided in these conditions and except where the goods are sold to a person dealing as a consumer (within the meaning of the Unfair Contract Terms Act 1977) all warranties and conditions or other terms implied by statute or common law are excluded to the fullest extent permitted by law.

8.5 Except in respect of death or personal injury caused by Qing Cables' negligence, Qing Cables shall not be liable to the Customer by reason of any representation or any implied warranty condition or other term or any duty at common law or under an express terms of the Contract for any consequential loss or damage (whether for loss of profits or otherwise) costs expenses or other claims for consequential compensation whatsoever.

8.6 Qing Cables' employees or agents are not authorised to make any representations or give advice concerning the goods which is not confirmed in writing by Qing Cables. In entering the contract the Customer confirms that it does not rely on and waives any claim in respect of any representation which has not been so confirmed.

8.7 Qing Cables shall be under no obligation to supply updated specifications or advise of any known changes.

9. Default or insolvency of customer

If the Customer defaults in any of its commitments to Qing Cables or makes an arrangement or composition with its creditors or becomes bankrupt or has a receiver appointed over its assets or being a company a petition is presented to wind it up or it enters into liquidation (other than for the purposes of amalgamation or reconstruction) or has a receiver or administrator appointed over its assets then in any such case Qing Cables shall have the right (without prejudice to any of its other remedies) to determine any contract then subsisting and/or to cancel any uncompleted order or to withhold or suspend delivery in whole or in part. If any goods have been delivered but not paid for the price shall become immediately due and payable.

10. Return of goods

The return of any goods to Qing Cables must have the prior approval of Qing Cables and (except where the goods are faulty) a handling charge will be made.

11. Force Majeure

Qing Cables shall not have any liability in respect of any delay in delivery or other of its obligations arising from complete or partial stoppage of work caused by strike, lock-out or other industrial action, civil commotion, government action or other circumstance beyond Qing Cables' reasonable control and delivery may be partially or wholly suspended or the contract cancelled in whole or in part at Qing Cables' option during or following any such event without Qing Cables incurring any liability for any loss or damage thereby occasioned.

12. Governing Law

Any contract incorporating these terms and conditions shall be governed by and construed in accordance with the laws of England and the parties hereby irrevocably agree to submit to the jurisdiction of the English Courts.

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MISSION STATEMENT



The aim of every person in this company is to ensure that our customers receive the highest quality of service possible, in our business of supplying communication and special cables.

Since inception in 1986 we have continually audited and reviewed our polices and general operations procedures in 4 main areas.

- **QUALITY MANAGEMENT BS EN ISO 9001**

Our task is to supply proprietary product quickly and competitively, and to ensure that the quality and standard of our products are at the very least maintained, but ideally improved. Benchmarking is at the hub of this programme, and you shouldn't need to check goods at the point of delivery - they should always be exactly what you have previously ordered or improved on.

- **HEALTH & SAFETY**

Sending you good safe consignments is one thing, but have you got the mechanical means to unload it at your premises? So are we packing in the ideal way? Can your employees safely handle the drums that we send to you? Health & Safety is a vital and integral part of our activities.

- **ENVIRONMENTAL - WORKING TOWARDS ISO14001**

Over the last eighteen months stringent legislation has been implemented to ensure that our waste output of paper, cardboard, wood and plastics are collected by approved companies who ensure that each material is properly recycled to full advantage. We have also



Paper produced at an EMAS registered mill

had this catalogue printed by an ISO14001 accredited printing company who use paper from an EMAS (Eco Management and Audit Scheme - a European equivalent to ISO14001) registered paper mill. The paper uses wood from sustainable forests and is chlorine free.

Our premises are audited so that we utilise optimum use of water and electricity.

We are very proud of these disciplines.

- **CONTINGENCY PLANNING**

How fast can we get back on our feet if we suffered a fire or damage on production? Something you need to know, particularly if we are supplying you with a product made to a unique specification.

Our highly trained sales people can assist you on all such matters and you are very welcome to visit us and discuss in detail your requirements, so that we can completely and precisely manage your cable business.



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Qing Cables Ltd., Malmesbury Road, Kingsditch Trading Estate, Cheltenham, Glos GL51 9PL

Tel: +44 (0) 1242 224141 Fax: +44 (0) 1242 224134

Email: enquire@qingcables.co.uk Website: www.qingcables.com

