

Tel: 020 88480045

Fax: 0870 1371198

AJB Project Services Ltd

e-mail:project@secure2000.co.uk

A.J.B. Project Services Ltd supply and install a range of Coaxial and twisted pair cables suitable for CCTV surveillance systems and general-purpose high frequency signal transmission. The RG cables are manufactured to American military specifications MIL-C-17, or high commercial grade, URM cables are manufactured to BS2316

CABLE Type	CONDUCTOR		DIELECTRIC		SCREEN		OUTER SHEATH		Imp.(Z) Ω	ATTENUATION dB/100M @ 400MHz		
	Size	Type	Size	Type	Type	Ø	Ø	Type		1	10	100
RG11	7/0.40	TCW	7.24	PE	PCWB	8.15	10.30	PVC	75	0.72	2.30	7.20
RG11RBS	7/0.40	TCW	7.24	PE	PCWB	7.92	11.5	RBS	75	0.72	2.30	7.20
RG59	1/0.58	CCSW	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
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	75	0.99	3.60	13.00
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	LSF	75	1.50	4.80	15.20
URM70RBS	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

Glossary

CCSW	Copper Covered Steel Wire	PE	Polyethylene
DB	Direct Burial (Similar to RBS)	PEAS	Polyethylene Air Spaced
LSF	Low Smoke and Fume	PVC	Polyvinylchloride
LSZH	Low Smoke Zero Halogen	RBS	Triple Bonded Sheath (Similar to DB)
PCW	Plain Copper Wire	SWA	Steel Wire Armoured
PCWB	Plain Copper Wire Braid	SWB	Steel Wire Braid

Satellite Distribution Coaxial

Other cables are available which are manufactured in accordance with BS5425 standards and designed to work at frequencies in excess of 2000MHz. The dielectric construction being 5 cell semi-air spaced (PEAS) with a longitudinally overlapped copper tape and plain copper braid giving very efficient screening in areas with high electrical noise presence.

QING	RAYDEX	BICC	DELTA
QC125	CT125	T3503	TR125

Cable Distance and Type

Distance	Interior or Exterior Applications	Ducted	Flexible Connections	Direct Buried (No Duct)
<250Mts	RG59 in conduit, trunking or surface clipped	URM70		RG59DB or URM70RBS
≥250 <500Mts	RG11 or CT125 in conduit, trunking or surface clipped	RG11 or CT125	URM70	CT125RBS or RG11RBS

N.B. If cable runs are too long for the type of cable used the signal will have to be amplified at either one or both ends.

Low Smoke Emissions

Many local authorities and government bodies specify that cables installed within buildings must be of "Low Smoke and Fume" (LSF), or "Low Smoke Zero Halogen" (LSZH) construction. For your safety A.J.B. Project Services Ltd will always install LSF sheath cables within buildings.

Direct Burial (DB)

Where a situation calls for the direct burial of cables without ducting, the DB range is ideally suited. These cables have a double sheath construction. The inner sheath being polyethylene and the outer sheath being polypropylene.

Power Cables

Electromagnetic fields generated by power cables can induce "noise" within coaxial cables causing interference and reducing picture quality. This "noise" can manifest itself as slow moving bars on the video monitor and are called "Hum Bars".

For this reason coaxial cables should be kept away from power cables by at least 300mm and under no circumstances should they be installed within or on the same containment system such as cable trays etc. To avoid earth loops, the jointing of cables should be avoided, where this is not possible proper insulation of the through connection or joint should be maintained preferably within a clearly labelled and suitable junction or marshalling box.

Severe damage to CCTV equipment through power surges and transient overvoltages caused by lightning is very common but simple to avoid. By fitting surge protection or barriers to the coaxial cable and just as importantly to the associated data cables, needless repairs to expensive video and control equipment can be avoided.

There are numerous reasons for bad picture quality, all can be avoided and most can be cured contact A.J.B. Project Services Ltd for advice.

This document is available at - <http://www.london-cctv.co.uk/>

This file and other specification sheets are available for download on the World Wide Web. They are produced to enable A.J.B. Project Services' servicing and commissioning personnel to access information on-line. This is to ensure we commission and maintain systems in a safe and professional manner and in accordance with the manufacturers recommendations and instructions.

All trademarks and registered trademarks are the properties of their respective owners.