



These coaxial (coax) cables are designed to carry high-frequency or broadband signals. Applications include connecting radios to their antennas, in computer networks or for distributing video signals.

PVC/PE black for internal/external use, PVC white for internal use only, LSZH for increased safety in the case of fire, PE Duct for ducted applications, FEP for high temperature areas, SWA for direct burial.

Construction

solid or stranded conductors, material varies
 core insulation (dielectric) material varies
 overall screen/s, material varies
 outer sheath material varies

Technical		
conductor materials:	PAC = plain annealed copper	TAC = tinned annealed copper
	CCS = copper clad steel	SPCCS = silver plated copper clad steel
insulation materials:	PE = solid polyethylene	PESS = polyethylene semi-solid
	FPE = foamed polyethylene	PTFE = polytetrafluoroethylene
screen materials:	AFT = aluminium foil tape	AWB = aluminium wire braid
	PCWB = plain copper wire braid	SPCWB = silver plated copper wire braid
	TCWB = tinned copper wire braid	CPAWB = copper plated aluminium wire braid
sheath materials:	PVC = polyvinylchloride,	LSZH = low smoke zero halogen
	PE Duct = thick polyethylene	FEP = fluorinated ethylene propylene
	SWA = steel wire armour (with black PE or PVC sheath)	
temperature range:	dependent on type, please check if critical	

Cable Description, Type and Outer Sheath Material	Core Material & Stranding (mm)	Insulation (Dielectric) Material	Screen Type & Material	Cable Overall		Nominal Impedance (Ohms)
				Diameter (mm)	Weight (kg/km)	
RG6 Type PVC Black	CCS 1/1.02	FPE	AFT+AWB	6.8	47	75
RG6 Type LSZH Black	CCS 1/1.02	FPE	AFT+AWB	6.8	47	75

Note: the most common constructions are shown here but materials, conductor sizes and screen types may differ dependent on individual manufacturer specifications.

Cable Description, Type and Outer Sheath Material	Core Material & Stranding (mm)	Insulation (Dielectric) Material	Screen Type & Material	Cable Overall		Nominal Impedance (Ohms)
				Diameter (mm)	Weight (kg/km)	
RG11 A/U PVC Black	TAC 7/0.40	PE	PC/CPAWB	10.3	149	75
RG11 A/U LSZH Black	TAC 7/0.40	PE	PC/CPAWB	10.3	149	75
RG11 A/U SWA Black	TAC 7/0.40	PE	PC/CPAWB	15.7	380	75
RG58 C/U PVC Black	TAC 19/0.18	PE	TC/CPAWB	5.1	46	50
RG58 C/U LSZH Black	TAC 19/0.18	PE	TC/CPAWB	5.1	46	50
RG58 C/U PE Duct Black	TAC 19/0.18	PE	TC/CPAWB	6.5	59	50
RG59 B/U PVC White	CCS 1/0.58	PE	PC/CPAWB	6.1	58	75
RG59 B/U PVC Black	CCS 1/0.58	PE	PC/CPAWB	6.1	58	75
RG59 B/U LSZH Black	CCS 1/0.58	PE	PC/CPAWB	6.1	58	75
RG59 B/U PE Duct Black	CCS 1/0.58	PE	PC/CPAWB	7.9	73	75
RG59 B/U SWA Black	CCS 1/0.58	PE	PC/CPAWB	10.3	195	75
RG59 Mini PVC White	CCS 1/0.58	FPE	PC/CPAWB	4.0	16	75
RG59 Mini PVC Black	CCS 1/0.58	FPE	PC/CPAWB	4.0	16	75
RG59 Mini LSZH White	CCS 1/0.58	FPE	PC/CPAWB	4.0	16	75
RG59 Mini LSZH Black	CCS 1/0.58	FPE	PC/CPAWB	4.0	16	75
RG62 A/U PVC Black	CCS 1/0.69	PESS	PCWB	6.2	60	93
RG62 A/U LSZH Black	CCS 1/0.69	PESS	PCWB	6.2	60	93
RG62 A/U SWA Black	CCS 1/0.69	PESS	PCWB	10.4	210	93
RG142 B/U FEP Brown	SPCCS 1/0.94	PTFE	2x SPCWB	4.9	74	50
RG174 A/U PVC Black	CCS 7/0.81	PE	TC/CPAWB	2.6	16	50
RG174 A/U LSZH Black	CCS 7/0.81	PE	TC/CPAWB	2.6	16	50
RG178 B/U PVC Black	SPCCS 7/0.16	PE	SPCWB	1.8	10	50

Note: the most common constructions are shown here but materials, conductor sizes and screen types may differ dependent on individual manufacturer specifications.

Cable Description, Type and Outer Sheath Material	Core Material & Stranding (mm)	Insulation (Dielectric) Material	Braid Screen Material	Cable Overall		Nominal Impedance (ohms)
				Diameter (mm)	Weight (kg/km)	
RG179 Type PVC Black	TAC 1/0.35	PE	PCWB	2.6	12	75
RG179 B/U FEP Brown	SPCCS 7/0.10	PTFE	SPCWB	2.5	15	75
RG213 /U PVC Black	PAC 7/0.75	PE	PC/CPAWB	10.3	166	50
RG214 /U PVC Black	SPC 7/0.75	PE	2x SPCWB	10.8	173	50
RG223 /U PVC Black	SPC 1/0.90	PE	2x SPCWB	5.4	49	50
RG316 /U FEP Black	SPCCS 7/0.17	PTFE	SPCWB	2.5	15	50

Note: the most common constructions are shown here but materials, conductor sizes and screen types may differ dependent on individual manufacturer specifications.

PVC or LSZH Properties: fairly tough & flexible materials resistant to a wide range of oils & chemicals. The primary difference between them is the levels of toxic chemicals produced in the case of a fire.

Standard polyvinylchloride (PVC) will emit around 28% HCL (hydrogen chloride) if burnt.

Low smoke zero halogen/halogen free (LSZH, LSOH, LSHF) guarantees max. 0.5% HCL emissions if burnt.

PE Properties: This compound is inflammable and UV resistant with good abrasion, tear resistant and electrical properties. Excellent resistance to water, inorganic salts, acids & alkalis and good resistance to organic solvents.

FEP Properties: Brand-named Teflon by DuPont this compound is difficult to inflame with outstanding resistance to acids, solvents, laquers, petrol, oils and many other chemicals. High dielectric strength, high abrasion and tear resistance. FEP (fluorinated ethylene propylene) is also resistant to microbes, dirt, weather, ozone & water.

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