

 **MOC SY 7**

75 Ohm Coaxial

CATV Cable

Product Selection Guide



subscriber**access**cable




INTERNATIONAL

RoHS 



75 Ohm Coaxial CATV Cable Product Selection Guide



productselectionguide

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introduction



PCT International's MOCSY 7 75 Ohm coaxial CATV cable is the reliable, cost-effective solution for today's bi-directional broadband systems. Designed and manufactured to the broadband industry's

standards, MOCSY7 cable offers service providers the lowest possible cable cost to access subscribers, while meeting or exceeding SCTE specifications to ensure reliable, long-life performance.

Z-Wire™

PCT International's Z-Wire drop cable with revolutionary corrosion resistant technology provides true protection for your network. Zero corrosion means the highest level of integrity for two way communications demanded by today's sophisticated consumers. And, PCT International's Z-Wire utilizes a patented, water based,

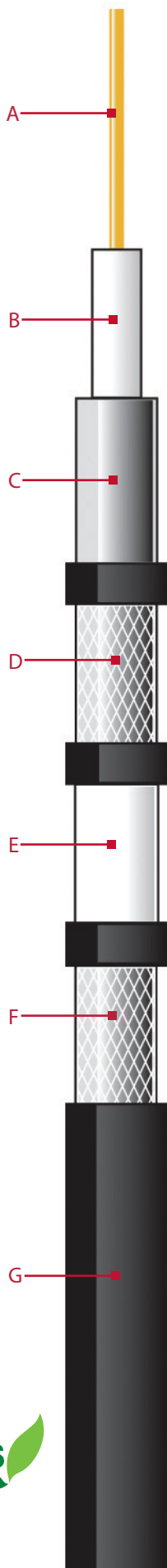
environment friendly binding process. The dry, permanent coating on Z-Wire cable prevents corrosion from weather and air pollution and ensures system reliability and performance over time. Because the coating is dry, it is easier for installers to quickly complete a clean, secure, installation.

- Dry corrosion protection

- Easy on installers, no messy flooding compounds

- Ensures system reliability





cable construction

a) center conductor

The center conductor is solid copper-clad steel wire for maximum signal transfer at RF frequencies and excellent strength during installation. The copper is metallurgically bonded to the steel per the requirements of ASTM B 566, Class 10 A.

center conductor adhesive

A proprietary, specially designed adhesive is applied as a coating to the outer surface of the center conductor to keep moisture from the interior of the cable and to sustain overall cable mechanical integrity.

b) foam dielectric

Polyethylene (PE) is foamed to micro-cell structures to achieve the highest level of signal transfer through the cable, while maintaining structural and environmental integrity in the cable.

c) base shield-tape

A laminated aluminum-poly-aluminum tape is fully bonded to the foam dielectric to provide 100 % coverage. Longitudinally applied over the core, the tape minimizes signal leakage.

d) second shield-braid

The second layer of shielding is braided 34 AWG aluminum wire. This important second layer improves shielding and is available in a variety of coverage options.

e) third shield (when specified)

The third layer is similar to the base tape layer, however it is not bonded. This construction provides the enhanced shielding required in harsh environments.

f) fourth shield-braid (when specified)

The fourth layer of shielding is braided 34 AWG aluminum wire. With it, the highest level of protection from signal ingress and egress is achieved.

g) jacket

High quality jacketing is used to protect the cable both from the rigors of installation and the environment. A variety of jacketing materials are available, depending upon the application. For common indoor/outdoor installations, polyvinylchloride (PVC) jacketing is used and is available in black, white, and neutral colors. For buriable applications, a black or orange polyethylene jacket is used.

flooding compounds

Flooding compounds are used between the outer shield and jacket for direct burial or conduit applications. Corrosion Guard™ is used for flooded Series 6 and 11 standard, tri-shield, and quad-shield constructions. Corrosion Guard non-flowing flooding gel protects shield components from corrosion. Corrosion Guard can also be used for aerial installations.

product applications and part numbers

indoor installations

For indoor installations, PVC jacketed cable is available in black, white, and neutral colors to blend well within a customer's home.

outdoor aerial installations

For standard outdoor aerial plant installations, two PVC jacketed cables are available: aerial and messenger. The aerial cable is designed to be pulled and lashed to a steel strand. Both are easily routed around corners and formed. This cable is also available with Z-Wire™ anti-corrosive treatment for added environmental protection.

buried / underground installations

Cables designed to be direct buried or placed in conduit are constructed with a flooding compound between the jacket and outer conductor to protect the cable from corrosion.

RoHS (definition)

Restriction of use of certain hazardous substances in electrical and electronic equipment.

connectors and tools

These cables are manufactured for use with industry standard connectors, tools, and all other cable construction-aiding devices.

braided drop cable part numbering system

						Description
A						MOCSY7 subscriber access cable
AZ						Z-Wire anti-corrosion protection
	59					Series 59 braided cable
	6					Series 6 braided cable
	11					Series 11 braided cable
			BVV			Bonded foil, PVC jacket, UL CATV rated
			BF			Bonded foil, PE jacket, flooding compound
			BVM			Bonded foil, PVC jacket, messenger wire
	60					60 % braid coverage
	67					67 % braid coverage
	77					77 % braid coverage
	90					90 % braid coverage
	TS					Tri-shield (tape, braid, tape)
	QS					Quad-shield (tape, braid, tape, braid)
						Blank = black jacketed
				W		White jacketing
				N		Neutral jacketing
				O		Orange jacketing
				BOX		Box packaging
				CAD		Coil packaging for reusable caddy
				RBX		Reel-in box packaging
				RBX5		Reel-in box packaging, 500 ft



Series 6 - 75 Ohm Broadband Coaxial Cable

Drop Cable

Series 6 standard shield 60 % braid 75 ohm

RoHS 2002/95/EC compliant - all constructions

Part Number	Description	Agency	Regulatory Compliance	
			NEC 820	NEC 830
A660-BVV	black PVC jacket	UL/ETL Certification	CATV, CM	BM
AZ660-BVV	black PVC jacket, Z-Wire™ anti-corrosion coating	UL/ETL Certification	CATV, CM	BM
A660DL-BVV	dual, black PVC jacket	UL/ETL Certification	CATV, CM	BM
AD660-BF	flooded, black PE jacket	UL/ETL Certification		BMU
AD660-BVM	messenger black PVC jacket			
AZ660-BVM	messenger, black PVC jacket with Z-Wire™ anti-corrosion coating	UL/ETL Certification	CATV, CM	BM
A660-BVR	black PVC jacket, riser rated	UL/ETL Certification	CATVR, CMR	BMR

Cable Options (applicable for all cable in the Drop Cable category)

-W	White PVC jacket
-O	Orange PE jacket
-N	Neutral PVC jacket
-BOX	Payout box (1000 ft)
-CAD	Coil (800 ft standard shield, 700 ft tri-shield)
-RBX	Reel-in-Box (1000 ft)
-RBX5	T-Pack Reel-in-Box (500 ft)

Construction Materials

Dielectric	Foam PE
Inner Conductor	Copper-clad steel wire
Outer Conductor	Bonded foil + 60 % aluminum braid
Messenger (if applicable)	0.051 in galvanized steel

Dimensions

Diameter Over Dielectric	4.490 mm (0.177 in)
Diameter Over Jacket	6.860 mm (0.270 in)
Diameter Over Tape	4.700 mm (0.185 in)
Inner Conductor OD	1.024 mm (0.0403 in)
Jacket Wall Thickness	0.760 mm (0.030 in)

Electrical Specifications

Operating Frequency Band	5 to 1000 MHz
Cable Impedance	75 ohm
dc Loop Resistance	135.0 ohms/km (41.1 ohms/kft)
dc Test Voltage	1500 volts
Jacket Spark Test Voltage (rms)	2500 volts
Velocity	85 %
Attenuation	See page 21

Mechanical Specifications (if applicable)

Messenger Breaking Strength	77.1 kgf (170.0 lbf)
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Series 6 - 75 Ohm Broadband Coaxial Cable

Drop Cable

Series 6 standard shield 90 % braid 75 ohm

RoHS 2002/95/EC compliant - all constructions

Part Number	Description	Agency	Regulatory Compliance	
			NEC 820	NEC 830
A690-BVV	black PVC jacket	UL/ETL Certification	CATV, CM	BM
A690-BF	flooded, black PE jacket	UL or ETL Certification		BMU
AD690-BVM	messenger, black PVC jacket			

Construction Materials

Dielectric	Foam PE
Inner Conductor	Copper-clad steel wire
Outer Conductor	Bonded foil + 90 % aluminum braid
Messenger (if applicable)	.051 in galvanized steel

Dimensions

Diameter Over Dielectric	4.490 mm (0.177 in)
Diameter Over Jacket	6.860 mm (0.270 in)
Diameter Over Tape	4.700 mm (0.185 in)
Inner Conductor OD	1.024 mm (0.040 in)
Jacket Wall Thickness	0.760 mm (0.030 in)

Electrical Specifications

Operating Frequency Band	5 to 1000 MHz
Cable Impedance	75 ohm
dc Loop Resistance	135.0 ohms/km (41.1 ohms/kft)
dc Test Voltage	1500
Jacket Spark Test Voltage (rms)	2500 volts
Velocity	85 %
Attenuation	See page 21

Mechanical Specifications (if applicable)

Messenger Breaking Strength	77.1 kgf (170.0 lbf)
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Series 6 - 75 Ohm Broadband Coaxial Cable

Drop Cable

Series 6 tri-shield 60 % braid 75 ohm

RoHS 2002/95/EC compliant - all constructions

Part Number	Description	Agency	Regulatory Compliance	
			NEC 820	NEC 830
A6TS-BVV	black PVC jacket	UL/ETL Certification	CATV, CM	BM
AZ6TS-BVV	black PVC jacket, Z-Wire™ anti-corrosion coating	UL/ETL Certification	CATV, CM	BM
AD6TS-BF	flooded, black PE jacket	UL/ETL Certification		BMU
AZ6TS-BVM	messenger, black PVC jacket, Z-Wire™ anti-corrosion coating	UL/ETL Certification		BM
A6TS-BVR	black PVC jacket, riser rated	UL/ETL Certification	CATVR, CMR	BMR

Construction Materials

Dielectric	Foam PE
Inner Conductor	Copper-clad steel wire
Outer Conductor	Bonded foil + 60 % aluminum braid + non-bonded foil
Messenger (if applicable)	0.051 in galvanized steel

Dimensions

Diameter Over Dielectric	4.490 mm (0.177 in)
Diameter Over Jacket	6.930 mm (0.273 in)
Diameter Over Tape	4.700 mm (0.185 in)
Inner Conductor OD	1.024 mm (0.0403 in)
Jacket Wall Thickness	0.760 mm (0.030 in)

Electrical Specifications

Operating Frequency Band	5 to 1000 MHz
Cable Impedance	75 ohm
dc Loop Resistance	126.0 ohms/km (38.4 ohms/kft)
dc Test Voltage	1500 volts
Jacket Spark Test Voltage (rms)	2500 volts
Velocity	85 %
Attenuation	See page 21

Mechanical Specifications (if applicable)

Messenger Breaking Strength	77.1 kgf (170.0 lbf)
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Series 6 - 75 Ohm Broadband Coaxial Cable

Drop Cable

Series 6 tri-shield 77 % braid 75 ohm

RoHS 2002/95/EC compliant - all constructions

Part Number	Description	Agency	Regulatory Compliance	
			NEC 820	NEC 830
A677TS-BVV	black PVC jacket	UL/ETL Certification	CATV, CM	BM
A677TSDL-BVV	dual, black PVC jacket	UL/ETL Certification	CATV, CM	BM
A677TS-BF	flooded, black PE jacket	UL/ETL Certification		BMU
A677TSDL-BF	dual, flooded, black PE jacket	UL/ETL Certification		BMU
AD677TS-BVM	messenger, black PVC jacket			
AZ677TS-BVM	messenger, black PVC jacket, Z-Wire™ anti-corrosion coating			
A677TS-BVR	black PVC jacket, riser rated	UL/ETL Certification	CATVR, CMR	BMR

Construction Materials

Dielectric	Foam PE
Inner Conductor	Copper-clad steel wire
Outer Conductor	Bonded foil + 77 % aluminum braid + non-bonded foil
Messenger (if applicable)	0.051 in galvanized steel

Dimensions

Diameter Over Dielectric	4.490 mm (0.177 in)
Diameter Over Jacket	6.930 mm (0.273 in)
Diameter Over Tape	4.700 mm (0.185 in)
Inner Conductor OD	1.024 mm (0.0403 in)
Jacket Wall Thickness	0.760 mm (0.030 in)

Electrical Specifications

Operating Frequency Band	5 to 1000 MHz
Cable Impedance	75 ohm
dc Loop Resistance	126.0 ohms/km (38.4 ohms/kft)
dc Test Voltage	1500 volts
Jacket Spark Test Voltage (rms)	2500 volts
Velocity	85 %
Attenuation	See page 21

Mechanical Specifications (if applicable)

Messenger Breaking Strength	77.1 kgf (170.0 lbf)
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Series 6 - 75 Ohm Broadband Coaxial Cable

Drop Cable

Series 6 quad-shield 60 % / 40 % braid 75 ohm

RoHS 2002/95/EC compliant - all constructions

Part Number	Description	Agency	Regulatory Compliance	
			NEC 820	NEC 830
A6QS-BVV	black PVC jacket	UL/ETL Certification	CATV, CM	BM
AZ6QS-BVV	black PVC jacket, Z-Wire™ anti-corrosion coating	UL/ETL Certification	CATV, CM	BM
A6QS-BF	flooded, black PE jacket	UL/ETL Certification		BMU
AD6QS-BVM	messenger, black PVC jacket,			
AZ6QS-BVM	messenger, black PVC jacket, Z-Wire™ anti-corrosion coating			
A6QS-BVR	black PVC jacket, riser rated	UL/ETL Certification	CATVR, CMR	BMR

Construction Materials

Dielectric	Foam PE
Inner Conductor	Copper-clad steel wire
Outer Conductor	Bonded foil + 60 % aluminum braid + non-bonded foil + 40 % aluminum braid
Messenger (if applicable)	0.051 in galvanized steel

Dimensions

Diameter Over Dielectric	4.490 mm (0.177 in)
Diameter Over Jacket	7.490 mm (0.295 in)
Diameter Over Tape	4.700 mm (0.185 in)
Inner Conductor OD	1.024 mm (0.0403 in)
Jacket Wall Thickness	0.760 mm (0.030 in)

Electrical Specifications

Operating Frequency Band	5 to 1000 MHz
Cable Impedance	75 ohm
dc Loop Resistance	121.0 ohms/km (36.9 ohms/kft)
dc Test Voltage	1500 volts
Jacket Spark Test Voltage (rms)	2500 volts
Velocity	85 %
Attenuation	See page 21

Mechanical Specifications (if applicable)

Messenger Breaking Strength	77.1 kgf (170.0 lbf)
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Series 11 - 75 Ohm Broadband Coaxial Cable

Drop Cable

Series 11 standard shield 60 % braid 75 ohm

RoHS 2002/95/EC compliant - all constructions

Part Number	Description	Agency	Regulatory Compliance	
			NEC 820	NEC 830
A1160-BVV	black PVC jacket	UL/ETL Certification	CATV, CM	BM
AD1160-BF	flooded, black PE jacket	UL/ETL Certification		BMU
AD1160-BVM	messenger, black PVC jacket			
AZ1160-BVM	messenger, black PVC jacket, Z-Wire™ anti-corrosion coating			

Construction Materials

Dielectric	Foam PE
Inner Conductor	Copper-clad steel wire
Outer Conductor	Bonded foil + 60 % aluminum braid
Messenger (if applicable)	0.072 in galvanized steel

Dimensions

Diameter Over Dielectric	7.110 mm (0.280 in)
Diameter Over Jacket	10.160 mm (0.400 in)
Diameter Over Tape	7.320 mm (0.288 in)
Inner Conductor OD	1.630 mm (0.064 in)
Jacket Wall Thickness	1.090 mm (0.043 in)

Electrical Specifications

Operating Frequency Band	5 to 1000 MHz
Cable Impedance	75 ohm
dc Loop Resistance	65.6 ohms/km (20.0 ohms/kft)
dc Test Voltage	1500 volts
Jacket Spark Test Voltage (rms)	2500 volts
Velocity	85 %
Attenuation	See page 21

Mechanical Specifications (if applicable)

Messenger Breaking Strength	156.9 kgf (346.0 lbf)
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Series 11 - 75 Ohm Broadband Coaxial Cable

Drop Cable

Series 11 standard shield 90 % braid 75 ohm

RoHS 2002/95/EC compliant - all constructions

Regulatory Compliance

Part Number	Description	Agency	NEC 820	NEC 830
AD1190-BVV	black PVC jacket	UL/ETL Certification	CATV, CM	BM
A1190-BF	flooded, black PE jacket	UL/ETL Certification		BMU
AD1190-BVM	messenger, black PVC jacket			

Construction Materials

Dielectric	Foam PE
Inner Conductor	Copper-clad steel wire
Outer Conductor	Bonded foil + 90 % aluminum braid
Messenger (if applicable)	0.072 in galvanized steel

Dimensions

Diameter Over Dielectric	7.110 mm (0.280 in)
Diameter Over Jacket	10.160 mm (0.400 in)
Diameter Over Tape	7.320 mm (0.288 in)
Inner Conductor OD	1.630 mm (0.064 in)
Jacket Wall Thickness	1.090 mm (0.043 in)

Electrical Specifications

Operating Frequency Band	5 to 1000 MHz
Cable Impedance	75 ohm
dc Loop Resistance	65.6 ohms/km (20.0 ohms/kft)
dc Test Voltage	1500 volts
Jacket Spark Test Voltage (rms)	2500 volts
Velocity	85 %
Attenuation	See page 21

Mechanical Specifications (if applicable)

Messenger Breaking Strength	156.9 kgf (346.0 lbf)
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Series 11 - 75 Ohm Broadband Coaxial Cable

Drop Cable

Series 11 tri-shield 60 % braid 75 ohm

RoHS 2002/95/EC compliant - all constructions

Part Number	Description	Agency	Regulatory Compliance	
			NEC 820	NEC 830
A11TS-BVV	black PVC jacket	UL/ETL Certification	CATV, CM	BM
AZ11TS-BVV	black PVC jacket, Z-Wire™ anti-corrosion coating	UL/ETL Certification	CATV, CM	BM
AD11TS-BF	flooded, black PE jacket	UL/ETL Certification		BMU
A11TS-BVM	messenger, black PVC jacket			
AZ11TS-BVM	messenger, black PVC jacket, Z-Wire™ anti-corrosion coating			

Construction Materials

Dielectric	Foam PE
Inner Conductor	Copper-clad steel wire
Outer Conductor	Bonded foil + 60 % aluminum braid + non-bonded foil
Messenger (if applicable)	0.072 in galvanized steel

Dimensions

Diameter Over Dielectric	7.110 mm (0.280 in)
Diameter Over Jacket	10.160 mm (0.400 in)
Diameter Over Tape	7.320 mm (0.288 in)
Inner Conductor OD	1.630 mm (0.064 in)
Jacket Wall Thickness	1.070 mm (0.042 in)

Electrical Specifications

Operating Frequency Band	5 to 1000 MHz
Cable Impedance	75 ohm
dc Loop Resistance	57.1 ohms/km (17.4 ohms/kft)
dc Test Voltage	1500 volts
Jacket Spark Test Voltage (rms)	2500 volts
Velocity	85 %
Attenuation	See page 21

Mechanical Specifications (if applicable)

Messenger Breaking Strength,	156.9 kgf (346.0 lbf)
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Series 11 - 75 Ohm Broadband Coaxial Cable

Drop Cable

Series 11 tri-shield 77 % braid 75 ohm

RoHS 2002/95/EC compliant - all constructions

Regulatory Compliance

Part Number	Description	Agency	NEC 820	NEC 830
A1177TS-BVV	black PVC jacket	UL/ETL Certification	CATV, CM	BM
A1177TS-BF	flooded, black PE jacket	UL/ETL Certification		BMU
A1177TS-BVM	messenger, black PVC jacket			

Construction Materials

Dielectric	Foam PE
Inner Conductor	Copper-clad steel wire
Outer Conductor	Bonded foil + 77 % aluminum braid + non-bonded foil
Messenger (if applicable)	0.072 in galvanized steel

Dimensions

Diameter Over Dielectric	7.110 mm (0.280 in)
Diameter Over Jacket	10.160 mm (0.400 in)
Diameter Over Tape	7.320 mm (0.288 in)
Inner Conductor OD	1.630 mm (0.064 in)
Jacket Wall Thickness	1.070 mm (0.042 in)

Electrical Specifications

Operating Frequency Band	5 to 1000 MHz
Cable Impedance	75 ohm
dc Loop Resistance	57.1 ohms/km (17.4 ohms/kft)
dc Test Voltage	1500 volts
Jacket Spark Test Voltage (rms)	2500 volts
Velocity	85 %
Attenuation	See page 21

Mechanical Specifications (if applicable)

Messenger Breaking Strength	156.9 kgf (346.0 lbf)
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Series 11 - 75 Ohm Broadband Coaxial Cable

Drop Cable

Series 11 quad-shield 60 % / 40 % braid 75 ohm

RoHS 2002/95/EC compliant - all constructions

Part Number	Description	Agency	Regulatory Compliance	
			NEC 820	NEC 830
AD11QS-BVV	black PVC jacket	UL/ETL Certification	CATV, CM	BM
AZ11QS-BVV	black PVC jacket, Z-Wire™ anti-corrosion coating	UL/ETL Certification	CATV, CM	BM
A11QS-BF	flooded, black PE jacket	UL/ETL Certification		BMU
A11QS-BVM	messenger, black PVC jacket			
A11QS-BVR	black PVC jacket, riser rated	UL/ETL Certification	CATVR, CMR	BMR

Construction Materials

Dielectric	Foam PE
Inner Conductor	Copper-clad steel wire
Outer Conductor	Bonded foil + 60 % aluminum braid + non-bonded foil + 40 % aluminum braid
Messenger (if applicable)	0.072 in galvanized steel

Dimensions

Diameter Over Dielectric	7.110 mm (0.280 in)
Diameter Over Jacket	10.290 mm (0.405 in)
Diameter Over Tape	7.320 mm (0.288 in)
Inner Conductor OD	1.630 mm (0.064 in)
Jacket Wall Thickness	0.940 mm (0.037 in)

Electrical Specifications

Operating Frequency Band	5 to 1000 MHz
Cable Impedance	75 ohm
dc Loop Resistance	54.8 ohms/km (16.7 ohms/kft)
dc Test Voltage	1500 volts
Jacket Spark Test Voltage (rms)	2500 volts
Velocity	85 %
Attenuation	See page 21

Mechanical Specifications (if applicable)

Messenger Breaking Strength	156.9 kgf (346.0 lbf)
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Series 59 - 75 Ohm Broadband Coaxial Cable

Drop Cable

Series 59 standard shield 67 % braid 75 ohm

RoHS 2002/95/EC compliant - all constructions

Regulatory Compliance

Part Number	Description	Agency	NEC 820	NEC 830
A5967-BVV	black PVC jacket	UL/ETL Certification	CATV, CM	BM
A5967-BF	flooded, black PE jacket	UL/ETL Certification		BMU
AD5967-BVM	messenger, black PVC jacket			

Construction Materials

Dielectric	Foam PE
Inner Conductor	Copper-clad steel wire
Outer Conductor	Bonded foil + 67 % aluminum braid
Messenger (if applicable)	0.051 in galvanized steel

Dimensions

Diameter Over Dielectric	3.660 mm (0.144 in)
Diameter Over Jacket	6.100 mm (0.240 in)
Diameter Over Tape	3.860 mm (0.152 in)
Inner Conductor OD	0.810 mm (0.032 in)
Jacket Wall Thickness	0.790 mm (0.031 in)
Messenger Diameter	1.300 mm (0.051 in)

Electrical Specifications

Operating Frequency Band	5 to 1000 MHz
Cable Impedance	75 ohm
dc Loop Resistance	200.0 ohms/km (60.9 ohms/kft)
dc Test Voltage	1500 volts
Jacket Spark Test Voltage (rms)	2500 volts
Velocity	85 %
Attenuation	See page 21

Mechanical Specifications

Messenger Breaking Strength	77.1 kgf (170.0 lbf)
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Series 59 - 75 Ohm Broadband Coaxial Cable

Drop Cable

Series 59 tri-shield 67 % braid 75 ohm

RoHS 2002/95/EC compliant - all constructions

Part Number	Description	Agency	Regulatory Compliance	
			NEC 820	NEC 830
A59TS-BVV	black PVC jacket	UL/ETL Certification	CATV, CM	BM
A59TS-BVM	messenger, black PVC jacket			

Construction Materials

Dielectric	Foam PE
Inner Conductor	Copper-clad steel wire
Outer Conductor	Bonded foil + 67 % aluminum braid + non-bonded foil
Messenger (if applicable)	0.051 in galvanized steel

Dimensions

Diameter Over Dielectric	3.660 mm (0.144 in)
Diameter Over Jacket	6.200 mm (0.244 in)
Diameter Over Tape	3.860 mm (0.152 in)
Inner Conductor OD	0.810 mm (0.032 in)
Jacket Wall Thickness	0.760 mm (0.030 in)
Messenger Diameter	1.300 mm (0.051 in)

Electrical Specifications

Operating Frequency Band	5 to 1000 MHz
Cable Impedance	75 ohm
dc Loop Resistance	190.0 ohms/km (58.0 ohms/kft)
dc Test Voltage	1500 volts
Jacket Spark Test Voltage (rms)	2500 volts
Velocity	85 %
Attenuation	See page 21

Mechanical Specifications

Messenger Breaking Strength	77.1 kgf (170.0 lbf)
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Series 59 - 75 Ohm Broadband Coaxial Cable

Drop Cable

Series 59	quad-shield	53 % / 35 % braid	75 ohm
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RoHS 2002/95/EC compliant - all constructions

Part Number	Description	Agency	Regulatory Compliance	
			NEC 820	NEC 830
A59QS-BVV	black PVC jacket	UL/ETL Certification	CATV, CM	BM

Construction Materials

Dielectric	Foam PE
Inner Conductor	Copper-clad steel wire
Outer Conductor	Bonded foil + 53 % aluminum braid + non-bonded foil + 35 % aluminum braid

Dimensions

Diameter Over Dielectric	3.660 mm (0.144 in)
Diameter Over Jacket	6.730 mm (0.265 in)
Diameter Over Tape	3.860 mm (0.152 in)
Inner Conductor OD	0.810 mm (0.032 in)
Jacket Wall Thickness	0.760 mm (0.030 in)

Electrical Specifications

Operating Frequency Band	5 to 1000 MHz
Cable Impedance	75 ohm
dc Loop Resistance	184.0 ohms/km (56.1 ohms/kft)
dc Test Voltage	1500 volts
Jacket Spark Test Voltage (rms)	2500 volts
Velocity	85 %
Attenuation	See page 21



Series 59- 75 Ohm Broadband Coaxial Cable

Headend Cable

Series 59 quad-shield 95 % / 95 % braid 75 ohm

RoHS 2002/95/EC compliant - all constructions

Part Number	Description	Agency	Regulatory Compliance	
			NEC 820	NEC 830
A5995-HEC	black PVC jacket, silver coated steel center conductor	UL/ETL Certification	CATV, CM	BM

Cable Options (This applies to all cable in the HEADEND category)

-BL	Blue Jacket
-BN	Brown Jacket
-W	White Jacket
-Y	Yellow Jacket
-GY	Gray Jacket
-G	Green Jacket
-O	Orange Jacket
-P	Pink Jacket
-V	Violet Jacket
-R	Red Jacket

Construction Materials

Dielectric	Foam PE
Inner Conductor	Silver-plated copper-clad steel wire
Outer Conductor	Bonded foil + 95 % aluminum braid + non-bonded foil + 95 % aluminum braid

Dimensions

Diameter Over Dielectric	3.661 mm (0.142 in)
Diameter Over Jacket	6.860 mm (0.270 in)
Diameter Over Tape	3.810 mm (0.150 in)
Inner Conductor OD	0.810 mm (0.032 in)
Jacket Wall Thickness	0.760 mm (0.030 in)

Electrical Specifications

Operating Frequency Band	5 to 1000 MHz
Cable Impedance	75 ohm
dc Loop Resistance	184.0 ohms/km (56.1 ohms/kft)
dc Test Voltage	1500 volts
Jacket Spark Test Voltage (rms)	2500 volts
Velocity	85 %
Attenuation	See page 21



Series 6 - 75 Ohm Broadband Coaxial Cable

Hybrid Coax / Twisted Pair

Series 6 tri-shield 60 % braid 75 ohm 22 AWG twisted pair

RoHS 2002/95/EC compliant - all constructions

Part Number	Description	Agency	Regulatory Compliance	
			NEC 820	NEC 830
A6TS22-BVV	Black PVC jacket	UL/ETL Certification	CATV, CM	BM
A6TS22-BF	Flooded, black PE jacket	UL/ETL Certification		BMU
A6TS22-BVM	Messenger, black PVC jacket			
AZ6TS22-BVM	Messenger, black PVC jacket, Z-Wire™ anti-corrosion coating			

Construction Materials

Coax Dielectric	Foam PE
Coax Inner Conductor	Copper-clad steel wire
Coax Outer Conductor	Bonded foil + 60 % aluminum braid + non-bonded foil
Pair Dielectric	Solid PE
Pair Conductor	Solid 22 AWG Copper
Messenger (if applicable)	.051 in galvanized steel

Coax Dimensions

Diameter Over Dielectric	4.490 mm (0.177 in)
Diameter Over Jacket	6.930 mm (0.273 in)
Diameter Over Tape	4.700 mm (0.185 in)
Inner Conductor OD	1.024 mm (0.040 in)
Jacket Wall Thickness	0.760 mm (0.030 in)

Coax Electrical Specifications

Operating Frequency Band	5 to 1000 MHz
Cable Impedance	75 ohm
dc Loop Resistance	126.0 ohms/km (38.4 ohms/kft)
dc Test Voltage	1500 volts
Jacket Spark Test Voltage (rms)	2500 volts
Velocity	85 %
Attenuation	See page 21

Mechanical Specifications (if applicable)

Messenger Breaking Strength	77.1 kgf (170.0 lbf)
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Series 6 - 75 Ohm Broadband Coaxial Cable

Hybrid Coax / Twisted Pair

Series 6 quad-shield 60 % / 40 % braid 75 ohm 22 AWG twisted pair

RoHS 2002/95/EC compliant - all constructions

Part Number	Description	Agency	Regulatory Compliance	
			NEC 820	NEC 830
A6QS22-BVV	Black PVC jacket	UL/ETL Certification	CATV, CM	BM
A6QS22-BF	Flooded, black PE jacket	UL/ETL Certification		BMU
A6TS22-BVM	Messenger, black PVC jacket			
AZ6QS22-BVM	Messenger, black PVC jacket, Z-Wire™ anti-corrosion coating			

Construction Materials

Coax Dielectric	Foam PE
Coax Inner Conductor	Copper-clad steel wire
Coax Outer Conductor	Bonded foil + 60 % aluminum braid + non-bonded foil + 40 % aluminum braid
Pair Dielectric	Solid PE
Pair Conductor	Solid 22 AWG Copper
Messenger (if applicable)	.051 in galvanized steel

Coax Dimensions

Diameter Over Dielectric	4.490 mm (0.177 in)
Diameter Over Jacket	7.490 mm (0.295 in)
Diameter Over Tape	4.700 mm (0.185 in)
Inner Conductor OD	1.024 mm (0.040 in)
Jacket Wall Thickness	0.760 mm (0.030 in)

Coax Electrical Specifications

Operating Frequency Band	5 to 1000 MHz
Cable Impedance	75 ohm
dc Loop Resistance	121.0 ohms/km (36.9 (ohms/kft))
dc Test Voltage	1500 volts
Jacket Spark Test Voltage (rms)	2500 volts
Velocity	85 %
Attenuation	See page 21

Mechanical Specifications (if applicable)

Messenger Breaking Strength	77.1 kgf (170.0 lbf)
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Series 11 - 75 Ohm Broadband Coaxial Cable Hybrid Coax / Twisted Pair

Series 11 tri-shield 60 % braid 75 ohm 22 AWG twisted pair

RoHS 2002/95/EC compliant - all constructions

Regulatory Compliance

Part Number	Description	Agency	NEC 820	NEC 830
A11TS22-BVV	Black PVC jacket	UL/ETL Certification	CATV, CM	BM
A11TS22-BF	Flooded, black PE jacket	UL/ETL Certification		BMU
A11TS22-BVM	Messenger, black PVC jacket			
AZ11TS22-BVM	Messenger, black PVC jacket, Z-Wire™ anti-corrosion coating			

Construction Materials

Coax Dielectric	Foam PE
Coax Inner Conductor	Copper-clad steel wire
Coax Outer Conductor	Bonded foil + 60 % aluminum braid + non-bonded foil
Pair Dielectric	Solid PE
Pair Conductor	Solid 22 AWG Copper
Messenger (if applicable)	.072 in galvanized steel

Coax Dimensions

Diameter Over Dielectric	7.110 mm (0.280 in)
Diameter Over Jacket	10.160 mm (0.400 in)
Diameter Over Tape	7.320 mm (0.288 in)
Inner Conductor OD	1.630 mm (0.064 in)
Jacket Wall Thickness	1.070 mm (0.042 in)

Coax Electrical Specifications

Operating Frequency Band	5 to 1000 MHz
Cable Impedance	75 ohm
dc Loop Resistance	57.1 ohms/km (17.4 ohms/kft)
dc Test Voltage	1500 volts
Jacket Spark Test Voltage (rms)	2500 volts
Velocity	85 %
Attenuation	See page 21

Mechanical Specifications (if applicable)

Messenger Breaking Strength	156.9 kgf (346.0 lbf)
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attenuation tables

Series 6

(applicable to all cable in this series of drop cable category)

Frequency MHz	Attenuation dB/100 m	Attenuation dB/100 ft
5	1.90	0.58
55	5.25	1.60
211	10.00	3.05
250	10.82	3.30
270	11.04	3.37
300	11.64	3.55
330	12.26	3.74
350	12.63	3.85
400	13.61	4.15
450	14.43	4.40
500	15.29	4.66
550	16.08	4.90
600	16.73	5.10
750	18.54	5.65
870	20.04	6.11
1000	21.49	6.55

Series 11

(applicable to all cable in this series of drop cable category)

Frequency MHz	Attenuation dB/100 m	Attenuation dB/100 ft
5	1.25	0.38
55	3.15	0.96
211	6.23	1.90
250	6.72	2.50
270	7.00	2.13
300	7.38	2.25
330	7.71	2.35
350	7.94	2.42
400	8.53	2.60
450	9.02	2.75
500	9.51	2.90
550	9.97	3.04
600	10.43	3.18
750	11.97	3.65
870	13.31	4.06
1000	14.27	4.35

Series 59

(applicable to all cable in this series of drop cable category)

Frequency MHz	Attenuation dB/100 m	Attenuation dB/100 ft
5	2.82	0.86
55	6.73	2.05
211	12.47	3.80
250	13.45	4.10
270	13.85	4.22
300	14.60	4.45
330	15.29	4.66
350	15.75	4.80
400	16.73	5.10
450	17.72	5.40
500	18.70	5.70
550	19.52	5.95
600	20.35	6.20
750	22.87	6.97
870	24.85	7.57
1000	26.64	8.12

Packing/Shipping Details

Reel Packaging

Part Number	Cable Length m (ft)	Reel Flange cm (in)	Reel Hub cm (in)	Reel Traverse cm (in)	Total Weight kg (lb)	Reels Per Pallet
Series 6						
A660-BVV	305 (1000)	31.0 (12.0)	12.5 (4.9)	30.0 (11.8)	14.5 (32.0)	36
AZ660-BVV	305 (1000)	31.0 (12.0)	12.5 (4.9)	30.0 (11.8)	14.5 (32.0)	36
A660DL-BVV	305 (1000)	50.0 (20.0)	20.0 (7.9)	30.0 (11.8)	29.0 (64.0)	12
AD660-BF	305 (1000)	31.0 (12.0)	12.5 (4.9)	30.0 (11.8)	11.8 (26.0)	36
AD660-BVM	305 (1000)	36.0 (14.0)	12.5 (4.9)	30.0 (11.8)	18.0 (40.0)	27
AZ660-BVM	305 (1000)	36.0 (14.0)	12.5 (4.9)	30.0 (11.8)	18.0 (40.0)	27
A660-BVR	305 (1000)	31.0 (12.0)	12.5 (4.9)	30.0 (11.8)	14.5 (32.0)	36
A690-BVV	305 (1000)	31.0 (12.0)	12.5 (4.9)	30.0 (11.8)	14.5 (32.0)	36
A690-BF	305 (1000)	31.0 (12.0)	12.5 (4.9)	30.0 (11.8)	13.2 (29.0)	36
AD690-BVM	305 (1000)	36.0 (14.0)	12.5 (4.9)	30.0 (11.8)	18.0 (40.0)	27
A6TS-BVV	305 (1000)	31.0 (12.0)	12.5 (4.9)	30.0 (11.8)	14.5 (32.0)	36
AZ6TS-BVV	305 (1000)	31.0 (12.0)	12.5 (4.9)	30.0 (11.8)	14.5 (32.0)	36
AD6TS-BF	305 (1000)	31.0 (12.0)	12.5 (4.9)	30.0 (11.8)	12.0 (26.0)	36
AD6TS-BVM	305 (1000)	36.0 (14.0)	12.5 (4.9)	30.0 (11.8)	18.0 (40.0)	27
AZ6TS-BVM	305 (1000)	36.0 (14.0)	12.5 (4.9)	30.0 (11.8)	18.0 (40.0)	27
A6TS-BVR	305 (1000)	31.0 (12.0)	12.5 (4.9)	30.0 (11.8)	14.5 (32.0)	36
A677TS-BVV	305 (1000)	31.0 (12.0)	12.5 (4.9)	30.0 (11.8)	14.5 (32.0)	36
A677TSDL-BVV	305 (1000)	31.0 (12.0)	12.5 (4.9)	30.0 (11.8)	14.5 (32.0)	12
A677TS-BF	305 (1000)	31.0 (12.0)	12.5 (4.9)	30.0 (11.8)	12.0 (26.0)	36
A677TSDL-BF	305 (1000)	50.0 (19.7)	20.0 (7.9)	30.0 (11.8)	23.4 (51.6)	12
AD677TS-BVM	305 (1000)	31.0 (14.0)	12.5 (4.9)	30.0 (11.8)	18.0 (40.0)	27
AZ677TS-BVM	305 (1000)	35.5 (14.0)	12.5 (4.9)	30.0 (11.8)	14.5 (32.0)	27
A677TS-BVR	305 (1000)	31.0 (12.0)	12.5 (4.9)	30.0 (11.8)	14.5 (32.0)	36
A6QS-BVV	305 (1000)	34.0 (14.0)	12.5 (4.9)	30.0 (11.8)	17.5 (39.0)	27
AZ6QS-BVV	305 (1000)	34.0 (14.0)	12.5 (4.9)	30.0 (11.8)	17.5 (39.0)	27
A6QS-BF	305 (1000)	31.0 (14.0)	12.5 (4.9)	30.0 (11.8)	14.5 (32.0)	27
AD6QS-BVM	305 (1000)	40.0 (16.0)	12.5 (4.9)	30.0 (11.8)	22.8 (50.0)	18
AZ6QS-BVM	305 (1000)	40.0 (16.0)	12.5 (4.9)	30.0 (11.8)	22.8 (50.0)	18
A6QS-BVR	305 (1000)	35.5 (14.0)	12.5 (4.9)	30.0 (11.8)	17.5 (39.0)	27
A6TS22-BVV	305 (1000)	40.0 (16.0)	12.5 (4.9)	30.0 (11.8)	45.5 (100.1)	18
A6TS22-BF	305 (1000)	40.0 (16.0)	12.5 (4.9)	30.0 (11.8)	45.5 (100.1)	18
A6TS22-BVM	305 (1000)	46.0 (18.1)	12.5 (4.9)	30.0 (11.8)	26.4 (58.1)	12
AZ6TS22-BVM	305 (1000)	46.0 (18.1)	12.5 (4.9)	30.0 (11.8)	26.4 (58.1)	12
AZ6QS22-BVM	305 (1000)	50.0 (19.7)	20.0 (7.9)	30.0 (11.8)	30.0 (66.0)	12
A6QS22-BF	305 (1000)	46.0 (18.1)	12.5 (4.9)	30.0 (11.8)	16.6 (36.5)	12

Packing/Shipping Details

Reel Packaging

Part Number	Cable Length	Reel Flange	Reel Hub	Reel Traverse	Total Weight	Reels Per Pallet
m (ft)	cm (in)	cm (in)	cm (in)	kg (lb)		

Series 11

A1160-BVV	305 (1000)	46.0 (18.0)	20.0 (7.9)	30.0 (11.8)	28.6 (63.0)	12
AD1160-BF	305 (1000)	46.0 (18.0)	20.0 (7.9)	30.0 (11.8)	26.3 (58.0)	12
AD1160-BVM	305 (1000)	53.0 (21.0)	20.0 (7.9)	30.0 (11.8)	39.0 (86.0)	12
AZ1160-BVM	305 (1000)	52.5 (21.0)	20.0 (7.8)	30.0 (11.8)	37.0 (82.0)	12
AD1190-BVV	305 (1000)	46.0 (18.0)	20.0 (7.9)	30.0 (11.8)	28.6 (63.0)	12
A1190-BF	305 (1000)	46.0 (18.0)	20.0 (7.9)	30.0 (11.8)	26.3 (58.0)	12
AD1190-BVM	305 (1000)	52.5 (21.0)	20.0 (7.9)	30.0 (11.8)	39.0 (86.0)	12
A11TS-BVV	305 (1000)	46.0 (18.0)	20.0 (7.9)	30.0 (11.8)	28.1 (62.0)	12
AZ11TS-BVV	305 (1000)	46.0 (18.0)	20.0 (7.9)	30.0 (11.8)	28.1 (62.0)	12
AD11TS-BF	305 (1000)	46.0 (18.0)	20.0 (7.9)	30.0 (11.8)	28.1 (62.0)	12
A11TS-BVM	305 (1000)	52.5 (21.0)	20.0 (7.9)	30.0 (11.8)	36.7 (81.0)	12
AZ11TS-BVM	305 (1000)	52.5 (21.0)	20.0 (7.9)	30.0 (11.8)	37.0 (82.0)	12
A1177TS-BVV	305 (1000)	46.0 (18.0)	20.0 (7.9)	30.0 (11.8)	28.1 (62.0)	12
A1177TS-BVV	305 (1000)	46.0 (18.0)	20.0 (7.9)	30.0 (11.8)	28.1 (62.0)	12
A1177TS-BF	305 (1000)	46.0 (18.0)	20.0 (7.9)	30.0 (11.8)	26.3 (58.0)	12
A1177TS-BVM	305 (1000)	53.0 (21.0)	20.0 (7.9)	30.0 (11.8)	36.7 (81.0)	12
AD11QS-BVV	305 (1000)	50.0 (20.0)	20.0 (7.9)	30.0 (11.8)	29.0 (64.0)	12
AZ11QS-BVV	305 (1000)	50.0 (20.0)	20.0 (7.9)	30.0 (11.8)	29.0 (64.0)	12
A11QS-BF	305 (1000)	50.0 (20.0)	20.0 (7.9)	30.0 (11.8)	27.7 (61.0)	12
A11QS-BVR	305 (1000)	50.0 (20.0)	20.0 (7.9)	30.0 (11.8)	29.0 (64.0)	12
A11TS22-BVV	305 (1000)	52.5 (20.7)	20.0 (7.9)	30.0 (11.8)	27.7 (60.9)	12
A11TS22-BVM	305 (1000)	56.5 (22.2)	20.0 (7.9)	30.0 (11.8)	45.5 (100.1)	12
AZ11TS22-BVM	305 (1000)	56.5 (22.2)	20.0 (7.9)	30.0 (11.8)	45.5 (100.1)	12
A11TS22-BF	305 (1000)	52.5 (20.7)	20.0 (7.9)	30.0 (11.8)	27.7 (60.9)	12

Series 59

A5967-BVV	305 (1000)	27.0 (11.0)	10.0 (3.9)	30.0 (11.8)	11.4 (25.0)	48
A5967-BF	305 (1000)	27.0 (11.0)	10.0 (3.9)	30.0 (11.8)	11.4 (25.0)	48
AD5967-BVM	305 (1000)	34.0 (13.0)	12.5 (4.9)	30.0 (11.8)	15.4 (34.0)	27
A59TS-BVV	305 (1000)	27.0 (11.0)	10.0 (3.9)	30.0 (11.8)	11.4 (25.0)	48
A59TS-BVM	305 (1000)	34.0 (13.0)	12.5 (4.9)	30.0 (11.8)	15.4 (34.0)	27
A5995-HEC	305 (1000)	31.0 (12.0)	12.5 (4.9)	30.0 (11.8)	15.2 (6.9)	36



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