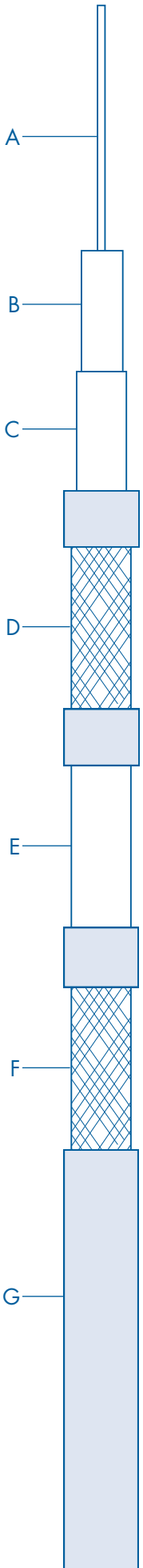
DAXCESS™

Advanced digital broadband subscriber access cable

Andrew Daxcess broadband subscriber access cable is the reliable, cost-effective solution for today's bi-directional broadband systems. Designed and manufactured to the world's highest standards, Daxcess cable offers service providers the lowest possible cable cost to access subscribers, while meeting or exceeding SCTE specifications to ensure reliable, long-life performance.

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 for anti-corrosion performance 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 is foamed to micro-cell structures to achieve the highest level of signal transfer through the cable, while at the same time maintaining structural and environmental integrity in the cable.

C) Base Shield – Tape

A laminated aluminum-polypropylene-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 from the environment. A variety of jacketing materials are available, depending upon the application. For common indoor/outdoor installations, 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.

Product Applications and Part Numbers

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.

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.

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

A			–			
	6					Braided Cable Series 6
	11					Braided Cable Series 11
	59					Braided Cable Series 59
		60				60% Braided Coverage
		67				67% Braided Coverage
		77				77% Braided Coverage
		90				90% Braided Coverage
		TS				60% Braided Coverage
		QS				60% + 40% Braided Coverage
				BVV		Black PVC
				BF		Black PE with Flooding Compound
				BVM		Black PVC with Messenger
					W	White Jacket
					O	Orange Jacket
					N	Neutral Jacket

A: Andrew DAXCESS™ Subscriber Access Cable

DAXCESS™ SERIES 6 Broadband Coaxial Cable Descriptions

Part Number	Description	Classifications	Shipping Weight
A660-BVV	Series 6 broadband coaxial cable, 60% braid, black PVC jacket	UL CATV or CM, NEC 830 BM	32 (14.5)
A660-BVV-WW	Series 6 broadband coaxial cable, 60% braid, white PVC jacket	UL CATV or CM, NEC 830 BM	32 (14.5)
A660-BVV-3	Series 6 broadband 3 GHz coaxial, solid copper inner, 60% braid, black PVC jacket	UL CATV or CM, NEC 830 BM	32 (14.5)
A660-BVV-3-BOX-3	Series 6 broadband 3 GHz coaxial, solid copper inner, 60% braid, black PVC jacket	UL CATV or CM, NEC 830 BM	32 (14.5)
AD660-BF	Series 6 broadband coaxial cable, 60% braid, black PE jacket, flooded	NEC 830 BMU	28 (12.7)
AD660-BVM	Series 6 broadband coaxial cable, 60% braid, black PVC jacket, messenger	UL CATV or CM, NEC 830 BM	45 (20.5)
A660-BVR	Series 6 broadband coaxial cable, 60% braid, riser rated jacket	UL CATVR or CMR, NEC 830 BM	45 (20.5)
A690-BVV	Series 6 broadband coaxial cable, 90% braid, black PVC jacket	UL CATV or CM, NEC 830 BM	33 (15.0)
A690-BVV-WW	Series 6 broadband coaxial cable, 90% braid, white PVC jacket	UL CATV or CM, NEC 830 BM	33 (15.0)
A690-BF	Series 6 broadband coaxial cable, 90% braid, black PE jacket, flooded	NEC 830 BMU	29 (13.2)
AD690-BVM	Series 6 broadband coaxial cable, 90% braid, black PVC jacket, messenger	UL CATV or CM, NEC 830 BM	46 (20.9)
A6TS-BVV	Series 6 broadband coaxial cable, tri-shield, black PVC jacket	UL CATV or CM, NEC 830 BM	32 (14.5)
A6TS-BVV-WW	Series 6 broadband coaxial cable, tri-shield, white PVC jacket	UL CATV or CM, NEC 830 BM	32 (14.5)
A6TS-BF	Series 6 broadband coaxial cable, tri-shield, black PE jacket, flooded	NEC 830 BMU	28 (12.7)
A6TS-BVM	Series 6 broadband coaxial cable, tri-shield, black PVC jacket, messenger	UL CATV or CM, NEC 830 BM	45 (20.5)
A677TS-BVV	Series 6 broadband coaxial cable, 77% braid tri-shield, black PVC jacket	UL CATV or CM, NEC 830 BM	32 (14.5)
A677TS-BVV-WW	Series 6 broadband coaxial cable, 77% braid tri-shield, white PVC jacket	UL CATV or CM, NEC 830 BM	32 (14.5)
A677TS-BF	Series 6 broadband coaxial cable, 77% braid tri-shield, black PE jacket, flooded	NEC 830 BMU	28 (12.7)
AD677TS-BVM	Series 6 broadband coaxial cable, 77% braid tri-shield, black PVC jacket, messenger	UL CATV or CM, NEC 830 BM	45 (20.5)
A6QS-BVV	Series 6 broadband coaxial cable, quad-shield, black PVC jacket	UL CATV or CM, NEC 830 BM	37 (16.8)
A6QS-BVV-WW	Series 6 broadband coaxial cable, quad-shield, white PVC jacket	UL CATV or CM, NEC 830 BM	37 (16.8)
A6QS-BF	Series 6 broadband coaxial cable, quad-shield, black PE jacket, flooded	NEC 830 BMU	33 (15.0)
AD6QS-BVM	Series 6 broadband coaxial cable, quad-shield, black PVC jacket, messenger	UL CATV or CM, NEC 830 BM	49 (22.3)

DAXCESS SERIES 11 Broadband Coaxial Cable Descriptions

Part Number	Description	Classifications	Shipping Weight
A1160-BVV	Series 11 broadband coaxial cable, 60% braid, black PVC jacket	UL CATV or CM, NEC 830 BM	63 (28.6)
A1160-BVV-WW	Series 11 broadband coaxial cable, 60% braid, white PVC jacket	UL CATV or CM, NEC 830 BM	63 (28.6)
AD1160-BF	Series 11 broadband coaxial cable, 60% braid, black PE jacket, flooded	NEC 830 BMU	60 (27.3)
AD1160-BVM	Series 11 broadband coaxial cable, 60% braid, black PVC jacket, messenger	UL CATV or CM, NEC 830 BM	85 (38.6)
A11TS-BVV	Series 11 broadband coaxial cable, tri-shield, black PVC jacket	UL CATV or CM, NEC 830 BM	64 (29.0)
A11TS-BVV-WW	Series 11 broadband coaxial cable, tri-shield, white PVC jacket	UL CATV or CM, NEC 830 BM	64 (29.0)
A11TS-BF	Series 11 broadband coaxial cable, tri-shield, black PE jacket, flooded	NEC 830 BMU	60 (27.3)
A11TS-BVM	Series 11 broadband coaxial cable, tri-shield, black PVC jacket, messenger	UL CATV or CM, NEC 830 BM	86 (39.1)
AD11QS-BVV	Series 11 broadband coaxial cable, quad-shield, black PVC jacket	UL CATV or CM, NEC 830 BM	67 (30.5)
A11QS-BVV-WW	Series 11 broadband coaxial cable, quad-shield, white PVC jacket	UL CATV or CM, NEC 830 BM	67 (30.5)
A11QS-BF	Series 11 broadband coaxial cable, quad-shield, black PE jacket, flooded	NEC 830 BMU	61 (27.7)
A11QS-BVM	Series 11 broadband coaxial cable, quad-shield, black PVC jacket, messenger	UL CATV or CM, NEC 830 BM	89 (40.4)

DAXCESS SERIES 59 Broadband Coaxial Cable Descriptions

Part Number	Description	Classifications	Shipping Weight
AD5967-BV	Series 59 broadband coaxial cable, 67% braid, black PVC jacket	NA	25 (11.4)
A5967-BF	Series 59 broadband coaxial cable, 67% braid, black PE jacket, flooded	NA	23 (10.4)
AD5967-BVM	Series 59 broadband coaxial cable, 67% braid, black PVC jacket, messenger	NA	34 (15.4)
AD59TS-BV	Series 59 broadband coaxial cable, tri-shield, black PVC jacket	NA	25 (11.4)
A59TS-BF	Series 59 broadband coaxial cable, tri-shield, black PE jacket, flooded	NA	23 (10.4)
A59TS-BVM	Series 59 broadband coaxial cable, tri-shield, black PVC jacket, messenger	NA	34 (15.4)

DAXCESS™ 6

DAXCESS SERIES 6 Broadband Coaxial Cable Specifications

Characteristic	Standard Shield	Tri-Shield	Quad-Shield
Construction Materials			
Outer Conductor	Bonded Aluminum Foil + Aluminum Braid	Bonded Foil + Braid + Non-Bonded Foil	Bonded Foil + Braid + Non-Bonded Foil + Braid
Inner Conductor	Bare Copper-Clad Steel Wire	Bare Copper-Clad Steel Wire	Bare Copper-Clad Steel Wire
Dielectric	Polyethylene Foam	Polyethylene Foam	Polyethylene Foam
Dimensions			
Diameter Over Jacket, in (mm)	0.273 (6.93)	0.278 (7.06)	0.297 (7.54)
Jacket Wall Thickness, in (mm)	0.030 (0.76)	0.030 (0.76)	0.032 (0.81
O.D. Over Tape, in (mm)	0.188 (4.78)	0.188 (4.78)	0.188 (4.78)
Foam Dielectric O.D., in (mm)	0.180 (4.57)	0.180 (4.57)	0.180 (4.57)
Inner Conductor O.D,. in (mm)	0.040 (1.02)	0.040 (1.02)	0.040 (1.02)
Messenger Specifications			
Messenger Diameter, in (mm)	0.051 (1.30)	0.051 (1.30)	0.051 (1.30)
Messenger Breaking Strength, lb (kg)	180 (82)	180 (82)	180 (82)
Electrical Specifications			
Operating Frequency Range (MHz)	5-1000	5-1000	5-1000
Impedance (ohms)	75	75	75
Velocity (%)	85	85	85
DC Loop Resistance ohms/1000ft (ohms/km)	46.2 (152)	43 (141)	36.9 (121)
DC Withstand Voltage (Volts DC)	1500	1500	1500
Jacket Spark (Volts RMS)	2500	2500	2500
Package Specifications			
Cable Length Per Reel, ft (m)	1000 (305)	1000 (305)	1000 (305)
Reel Flange, in (cm)	14.0 (36.0)	14.0 (36.0)	14.0 (36.0)
Reel Drum, in (cm)	6.0 (16.0)	6.0 (16.0)	6.0 (16.0)
Reel Transverse, in (cm)	11.0 (27.0)	11.0 (27.0)	11.0 (27.0)

DAXCESS 6 Performance*

Frequency	Attenuation (dB/100 ft)	Attenuation (dB/100 m)
5	0.58	1.90
55	1.60	5.25
211	3.05	10.00
250	3.30	10.82
300	3.55	11.64
400	4.15	13.61
450	4.40	14.43
550	4.90	16.08
750	5.65	18.54
1000	6.55	21.49

* at 68°F (20°C)

Cable Options	Part number suffix
White jacket	-W
Orange PE jacket	-O
Neutral jacket	-N
Box pack	-BOX
Examples:	A6QS-BVV-N = Series 6 quad-shield, neutral color jacket
	A6QS-BVV-NBOX = Series 6 quad-shield, neutral color, packed in a box

Connectors

Part Number	Description
ADW-DRS-6	CATV F Connector, male, for series 6 std to tri-shield, bag of 50
ADW-DRS-6Q	CATV F Connector, male, for series 6 quad shield, bag of 50

Tools

Part Number	Description
PT-5000UNV659	Universal compression tool, for series 6 cable
CPT-6	Cable prep tool, for series 6 cable

DAXCESS™ 11

DAXCESS SERIES 11 Broadband Coaxial Cable Specifications

Characteristic	Standard Shield	Tri-Shield	Quad-Shield
Construction Materials			
Outer Conductor Material	Bonded Aluminum Foil + Aluminum Braid	Bonded Foil + Braid + Non-Bonded Foil	Bonded Foil + Braid + Non-Bonded Foil + Braid
Inner Conductor Material	Bare Copper-Clad Steel Wire	Bare Copper-Clad Steel Wire	Bare Copper-Clad Steel Wire
Dielectric Material	Polyethylene Foam	Polyethylene Foam	Polyethylene Foam
Dimensions			
Diameter Over Jacket, in (mm)	0.400 (10.16)	0.400 (10.16)	0.407 (10.34)
Jacket Wall Thickness, in (mm)	0.043 (1.09)	0.042 (1.07)	0.034 (0.86)
O.D. Over Tape, in (mm)	0.288 (7.32)	0.288 (7.32)	0.288 (7.32)
Foam Dielectric, O.D., in (mm)	0.280 (7.11)	0.280 (7.11)	0.280 (7.11)
Inner Conductor, O.D., in (mm)	0.064 (1.63)	0.064 (1.63)	0.064 (1.63)
Mechanical Specifications			
Messenger Diameter, in (mm)	0.072 (1.83)	0.072 (1.83)	0.072 (1.83)
Messenger Breaking Strength, lb (kg)	365 (166)	365 (166)	365 (166)
Electrical Specifications			
Operating Frequency Range (MHz)	5-1000	5-1000	5-1000
Impedance (ohms)	75	75	75
Velocity (%)	85	85	85
DC Loop Resistance ohms/1000ft (ohms/km)	20.0 (65.6)	17.4 (57.1)	16.7 (54.8)
DC Withstand Voltage (Volts DC)	1500	1500	1500
Jacket Spark (Volts RMS)	2500	2500	2500
Package Specifications			
Cable Length Per Reel, ft (m)	1000 (305)	1000 (305)	1000 (305)
Reel Flange, in (cm)	18.0 (46.0)	18.0 (46.0)	18.0 (46.0)
Reel Drum, in (cm)	6.0 (16.0)	6.0 (16.0)	6.0 (16.0)
Reel Transverse, in (cm)	12.0 (31.0)	12.0 (31.0)	12.0 (31.0)

DAXCESS 11 Performance*

Frequency	Attenuation (dB/100 ft)	Attenuation (dB/100 m)
5	0.38	1.25
55	0.96	3.15
211	1.90	6.23
250	2.05	6.72
300	2.25	7.38
400	2.60	8.53
450	2.75	9.02
550	3.04	9.97
750	3.65	11.97
1000	4.35	14.27

* at 68°F (20°C)

Cable Options	Part number suffix
White jacket	-W
Orange PE jacket	-O
Neutral jacket	-N
Reel-less box	-BOX
Examples:	A11QS-BVV-N = Series 11 quad-shield, neutral color jacket
	A11QS-BVV-NBOX = Series 11 quad-shield, neutral color, packed in a box

Connectors

Part Number	Description
ADW-DRS-11	CATV F Connector, Male, bag of 50

Tools

Part Number	Description
PT-5000UNV711	Universal compression tool, for series 7 and 11 cable
CPT-11	Cable prep tool, for series 11 cable

DAXCESS™ 59

DAXCESS SERIES 59 Broadband Coaxial Cable Specifications

Characteristic	Standard Shield	Tri-Shield
Construction Materials		
Outer Conductor Material	Bonded Aluminum Foil + 67% Aluminum Braid	Bonded Foil + 67% Braid + Non-Bonded Foil
Inner Conductor Material	Bare Copper-Clad Steel Wire	Bare Copper-Clad Steel Wire
Dielectric Material	Polyethylene Foam	Polyethylene Foam
Dimensions		
Diameter Over Jacket, in (mm)	0.240 (6.10)	0.244 (6.20)
Jacket Wall Thickness, in (mm)	0.031 (0.79)	0.030 (0.76)
O.D. Over Tape, in (mm)	0.152 (3.86)	0.152 (3.86)
Foam Dielectric, O.D., in (mm)	0.144 (3.66)	0.144 (3.66)
Inner Conductor, O.D., in (mm)	0.032 (0.81)	0.032 (0.81)
Mechanical Specifications		
Messenger Diameter, in (mm)	0.051 (1.60)	0.051 (1.60)
Messenger Breaking Strength, lb (kg)	180 (82)	180 (82)
Electrical Specifications		
Operating Frequency Range (MHz)	5-1000	5-1000
Impedance (ohms)	75	75
Velocity (%)	85	85
DC Loop Resistance ohms/1000ft (ohms/km)	60.9 (200)	58.0 (190)
DC Withstand Voltage (Volts DC)	1500	1500
Jacket Spark (Volts RMS)	2500	2500
Package Specifications		
Cable Length Per Reel, ft (m)	1000 (305)	1000 (305)
Reel Flange, in (cm)	14.0 (36.0)	14.0 (36.0)
Reel Drum, in (cm)	6.0 (16.0)	6.0 (16.0)
Reel Transverse, in (cm)	10.0 (25.0)	10.0 (25.0)

DAXCESS 59 Performance*

Frequency	Attenuation (dB/100 ft)	Attenuation (dB/100 m)
5	0.86	2.82
55	2.05	6.73
211	3.80	12.47
250	4.10	13.45
300	4.45	14.60
400	5.10	16.73
450	5.40	17.72
550	5.95	19.52
750	6.97	22.87
1000	8.12	26.64

* at 68°F (20°C)

Cable Options	Part number suffix
White jacket	-W
Orange PE jacket	-O
Neutral jacket	-N
Box pack	-BOX
Examples:	A5967-BVV-W = Series 59, white jacket
	A59TS-BVV-WBOX = Series 59, white jacket, packed in a box

Connectors

Part Number	Description
ADW-DRS-59	CATV F Connector, Male, for series 59 std to tri-shield, bag of 50
ADW-DRS-59Q	CATV F Connector, Male, for series 59 quad shield, bag of 50

Tools

Part Number	Description
PT-5000UNV659	Universal compression tool, for series 59 cable
CPT-59	Cable prep tool, for series 59 cable