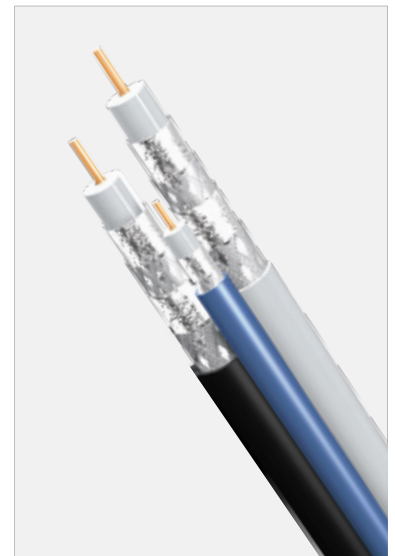


CONNECTING THE POWERED LIFE

ES

ES-TECH
INTERNATIONAL
SOLUTION



Coaxial Cable Solution

ES-TECH International is a technology company specialized in providing solutions for communication & Infrastructure.

Delivering proactive and proven solutions and services that help networks around the world. ES-TECH International provides solutions for broadcasting, broadband, network power and cables, especially optical/coaxial cable and comprehensive power solutions.

To keep pace with rapid changing market, ES-TECH International is expanding structured cable system/intelligence building system and network solution field by continuously developing new products through aggressive investment for R&D.

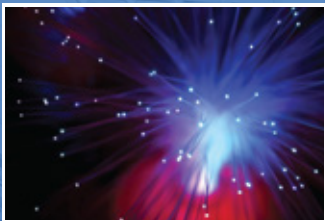
At the same time, ES-TECH International is developing new items by cooperating with Global Corporation, as well as developing its own brand to expand overseas market.

ES-TECH International will be always with you with state of the art solution which is your way to happiness.

Introduction of Business

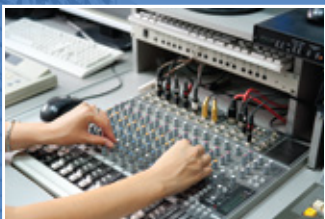
ES-TECH International Solutions

ES-TECH International is a technology company specialized in providing solutions for communication & Infrastructure. Delivering proactive and proven solutions and services that help networks around the world, ES-TECH international provides solutions for broadcasting, broadband, network power and cables, especially optical/coaxial cable and comprehensive power solutions.



Fiber Optics

- Distribution Cable
- Breakout Cable
- Simplex and Duplex
- Drop Cable
- Multi Loose Tube Cable
- Adss Cable
- Ribbon Cable



Broadcasting

- AV Cabling Solution
- SMPTE Camera Solution
- AV Patching Solution



Networking

- IBDN cabling solution
- HFC Network solution
- Network Consulting



Cables

- Coax Cable
- UTP Cable
- Coaxial Connector



Power Supply

- Square Wave UPS/PS
- Sine Wave UPS/PS
- Rack UPS
- APD
- STS
- AVR



Broadband

- FTTX Infra Structured
- FTTH Solution
- Device & Equipment



Telco

- DATA Center
- Core Networks
- Mobile Networks
- Microwave Technology



Growing together with creative company culture.

Amid the fast pace change in the management business environment, ES-TECH International is embarking on a new journey toward sustainable growth for creation of the customer values.

ES-TECH international is a technology company specialized in providing solutions for communication & Infrastructure.

Delivering proactive and proven solutions and services that help networks around the world, ES-TECH international provides solutions for broadcasting, broadband, network power and cables, especially optical/coaxial cable and comprehensive power solutions.

To keep pace with rapid changing market, ES-TECH international is expanding structured cable system/intelligence building system and network solution field by continuously developing new products through aggressive investment for R&D.

Also developing new items by cooperating with Global Corporation, at the same time developing our own brand to expand overseas market.

ES-TECH international will be always with you with state of the art solution which is your way to happiness.



ES CABLE

Company History

The below is the footprint of ES-TECH international



Company Scene



Jacketing Line



S/Z Stranding Line



Finished Cables

2018

Nominated as Promising Small-Medium Enterprises for Export by 'Ministry of SMEs and Startups'
Opening of an Office in New Delhi, India – Export Incubator

2017

Certification of "World-class product" from Ministry of Industry and Trade on Uninterruptible Power Supply for communication.
Nominated as a Military Service Designated Company (Industry) by Military Manpower Administrations.

2016

Certification of Youth-friendly 'Small Hidden Champion'
Certification of Gyeong-gi Province Job Recognition Excellent Company.
Completion of new head office construction in Suwon Industrial Complex.
Nominated as a Gyeong-gi Province Women Employment Excellent Company.

2015

Expand further for fiber optic cable / Launched ESCABLE brand
Verification of greenhouse gas inventory. (carbon management system ISO14064)

2014

Selected the best company to work for by SMBA
(Small and Medium Business Administration)

2013

Selected promising small & medium business by Gyeonggi-Do Provincial Government
Submitted a new design for practical use to KIPO (Korean Intellectual Property Office)
Submitted design patent of 'Hole kit' for communication cable distributor to KIPO (Korean Intellectual Property Office)

2012

Selected best small & medium business to work for
Selected as 'a venture business' by small & medium business administration.
Awarded design award by Gyeonggi province governor.

2010

Developed STS
Developed ground mount enclosure
Achieved the patent of 'dual power distribution equipment'.
Achieved the patent for rack type server system power distribution equipment

2008

Developed CATV line UPS of SUN & MOON series.
Developed small sized power supply for apartment building.
Obtained 'annex research institute certification' by KOITA
Obtained 'Innobiz certification' by small & medium business administration.

2007

Obtained 'small & medium size business certification' by administration
Obtained ISO 9001:2000 certifications

2005

Converted to corporation (ES-TECH international Inc.)
Developed APT (Auto Power Distributor)

2004

Developed CATV line UPS

2002

ES TECH NOLOGY was founded



Fiber Optics



Power



Broadcasting



Broadband



Networking



Telco



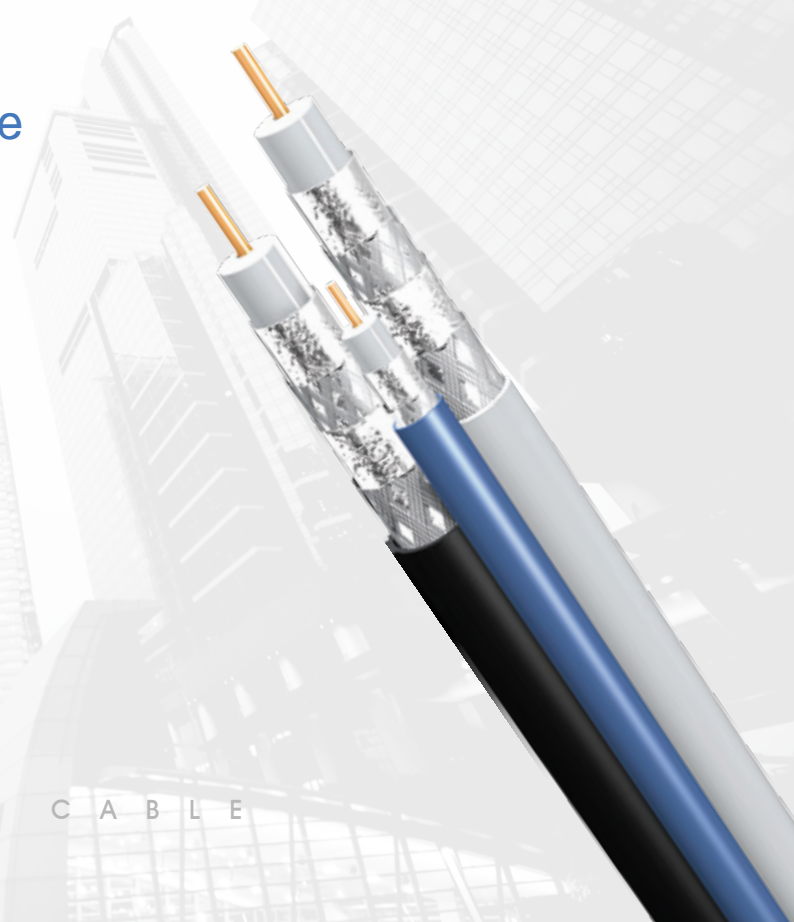
Cable



E S - T E C H I N T E R N A T I O N A L

ES-TECH Coaxial Cable

Drop Cable
Headend Cable
Trunk and Distribution Cable



E S - T E C H C O A X I A L C A B L E

E S - T E C H I N T E R N A T I O N A L

High Quality Total Communication Cable Solutions

ES-TECH INTERNATIONAL, Inc.

ES CABLE

ES-TECH international is specialized
in providing broadcasting,
communication, electronic solution.

ES-TECH international specialized in providing broadcasting, communication, electronic solution.
ES-TECH international provides most essential products which used in broadcasting & communication
network service such as broad casting solution, broadband solution, power supply, network solution, cable solution etc.



ES CABLE

Coaxial Cables

CONTENTS

01 | Index

07 | Coaxial Cables

– mini 59 Bundle Type / 59 Bundle Type

– 59 Series Headend Cable

– 6 Series Drop Cable

– 11 Series Drop Cable

– 320 Series Trunk Cable

– 500 Series Trunk Cable

– 540 Series Trunk Cable



ESCABLE



ESCA-M059QB

SUPER(QUAD)-SHIELD BUNDLE TYPE

CONSTRUCTION

Series 59 75ohm CATV mini Headend Coaxial Cable,
All cables have 23 AWG solid bare copper conductors, a 100% bonded foil shield and 95% tinned copper braid shield.
The small O.D. enables A 1.5" bend radius—ideal where space is at a premium.
These cables meet SMPTE Broadcast Digital Standards (SDI). Available in 100', 250' and 1000' spools.

Physical Dimensions

Component (Nominal)	Inches	mm
Center Conductor Diameter	0.0226	0.57
Diameter Over Dielectric	0.100	2.54
Diameter Over First Shield (Tape)	0.107	2.72
Diameter Over Second Shield	0.127	3.23
Diameter Over Third Shield	0.131	3.33
Diameter Over Fourth Shield	0.151	3.84
Diameter Over Jacket	0.202	5.13

Ordering Info

Pack	Part no	Colors	Inches	mm
4	ESCA-M059Q4B	Black	0.496	12.6
8	ESCA-M059Q8B	Black	0.866	22.0

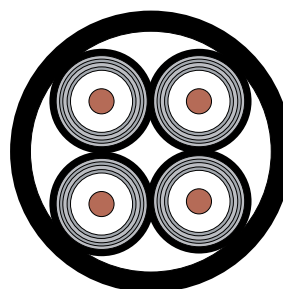
* Custom Bundles are available upon request

Electrical Characteristics

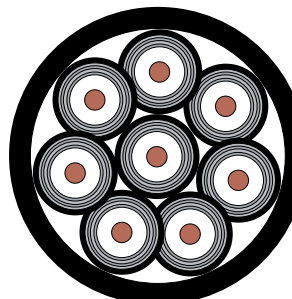
Impedance	75±3 ohms
Velocity of Propagation	> 82%

Attenuation [@ 68° F. (20° C.)]

Frequency (MHz)	Maximum (dB/100 ft)	Maximum (dB/100 m)
5	1.00	3.28
55	2.82	9.25
211	5.30	17.39
250	5.72	18.77
300	6.26	20.54
350	6.75	22.15
400	7.25	23.79
450	7.70	25.26
500	8.11	26.61
550	8.54	28.02
600	8.92	29.97
750	10.01	32.84
870	10.79	35.40
1000	11.62	38.13



4-PACK
SUPER(QUAD)-SHIELD
BUNDLE TYPE



8-PACK
SUPER(QUAD)-SHIELD
BUNDLE TYPE

ESCA-M059QB Accessories

CONNECTORS

MINI RG59 COAXIAL CONNECTOR MCX-TYPE CONNECTOR

CONSTRUCTION

75ohm mini Series 59 Universal Design, Nickel-Tin Plating
Standard & Quad-shield Connector
(0.163" ~ 0.202" Cable Preparation using)
Industry Standard Preparation Tools



MODEL : UNCN-M059AS-MX

Ordering Info

Part no	Post Inner dia	Body Inner dia	Inner pack	Outer pack
UNCN-059AS-MX	2.55mm	4.32mm	50pcs	1,000pcs
UNCN-059AQ-MX	2.55mm	5.31mm	50pcs	1,000pcs

MINI RG59 COAXIAL CONNECTOR F-TYPE COMPRESSION CONNECTOR

CONSTRUCTION

75ohm mini Series 59 Universal Design, Nickel-Tin Plating
Standard & Quad-shield Connector
(0.163" ~ 0.202" Cable Preparation using)
Industry Standard Preparation Tools



MODEL : UNCN-M059AS-CP

Ordering Info

Part no	Post Inner dia	Body Inner dia	Inner pack	Outer pack
UNCN-059AS-CP	2.55mm	4.32mm	50pcs	1,000pcs
UNCN-059AQ-CP	2.55mm	5.31mm	50pcs	1,000pcs

Preparation & Installation Tools

Compression Tool	UNCN-CPA
1/4" - 1/4" universal drop cable preparation tool	UNCN-SRA



UNCN-SRA

UNCN-CPA



ESCA-059QB

SUPER(QUAD)-SHIELD BUNDLE TYPE

CONSTRUCTION

Series 59, 75ohm Single Tape & Braid wire & APA tape & Braid wire Coaxial Drop Cable, 20 AWG Copper clad steel center conductor, gas foamed polyethylene dielectric, first shield aluminum-polymer-aluminum(APA) laminated tape with overlap bonded to dielectric, second shield of 34AWG aluminum braid wire coverage rate min 67%, third shield aluminum-polymer-aluminum laminated tape, fourth shield of 34 AWG aluminum braid wire coverage rate min 40%, jacket of black polyvinylchloride or polyethylene (flooded).

Physical Dimensions

Component (Nominal)	Inches	mm
Center Conductor Diameter	0.032	0.81
Diameter Over Dielectric	0.144	3.66
Diameter Over First Shield (Tape)	0.152	3.86
Diameter Over Second Shield	0.177	4.50
Diameter Over Third Shield	0.181	4.61
Diameter Over Fourth Shield	0.206	5.25
Diameter Over Jacket	0.265	6.73

Ordering Info

Pack	Part no	Colors	Inches	mm
4	ESCA-059Q4B	Black	0.709	18.0
8	ESCA-059Q8B	Black	1.075	27.3

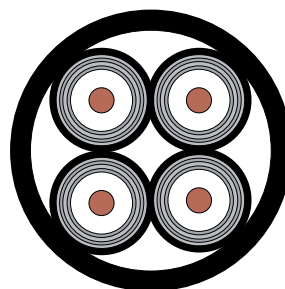
* Custom Bundles are available upon request

Electrical Characteristics

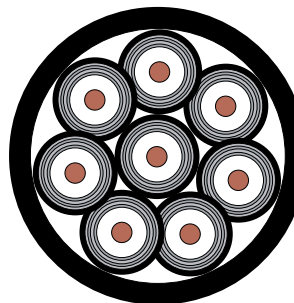
Impedance	75±3 ohms
Velocity of Propagation	> 82%

Attenuation [@ 68° F. (20° C.)]

Frequency (MHz)	Maximum (dB/100 ft)	Maximum (dB/100 m)
5	0.86	2.82
55	2.05	6.73
83	2.45	8.04
187	3.60	11.81
211	3.80	12.47
250	4.10	13.45
300	4.45	14.60
350	4.80	15.75
400	5.10	16.73
450	5.40	17.72
500	5.70	18.70
550	5.95	19.52
600	6.20	20.34
750	6.97	22.87
870	7.57	24.85
1000	8.12	26.64



4-PACK
SUPER(QUAD)-SHIELD
BUNDLE TYPE



8-PACK
SUPER(QUAD)-SHIELD
BUNDLE TYPE

ESCA-059QB Accessories

CONNECTORS

RG59 COAXIAL CONNECTOR F-TYPE COMPRESSION CONNECTOR

CONSTRUCTION

- 7-screw thread prevents maintenance from loose connections
- Pre-positioned cap to align incoming conductor straight.
- Ideal compression force
- Detachable sleeve for non-standard cables
- Installation requires one-step 0.24" ~ 0.265" cable preparation and universal compression tools used for all 59 & 6 series
- Incorporates a NiTin finish plus UV resistant plastic and O-rings to provide a reliable, environmentally sealed product.



MODEL : UNCN-059AS-CP

Ordering Info

Part no	Post Inner dia	Sleeve Inner dia	Sleeve color	Inner pack	Outer pack
UNCN-059AS-CP	3.99mm	6.30mm	White	50pcs	1,000pcs
UNCN-059AT-CP	3.99mm	6.40mm	White	50pcs	1,000pcs
UNCN-059AQ-CP	3.99mm	6.93mm	White	50pcs	1,000pcs
UNCN-059AQ-CH	3.99mm	6.93mm	White	50pcs	1,000pcs

Preparation & Installation Tools

Compression Tool	UNCN-CPA
¼" – ¼" universal drop cable preparation tool	UNCN-SRA



UNCN-SRA

UNCN-CPA



ESCA-M059S
STANDARD SHIELD

CONSTRUCTION

Series 59 75ohm CATV mini Headend Coaxial Cable, 23 AWG Copper clad steel center conductor, gas foamed polyethylene dielectric, first shield aluminum-polymer-aluminum(APA) laminated tape with overlap bonded to dielectric, second shield of 36 AWG aluminum braid wire coverage rate min 95%, jacket of polyvinylchloride.

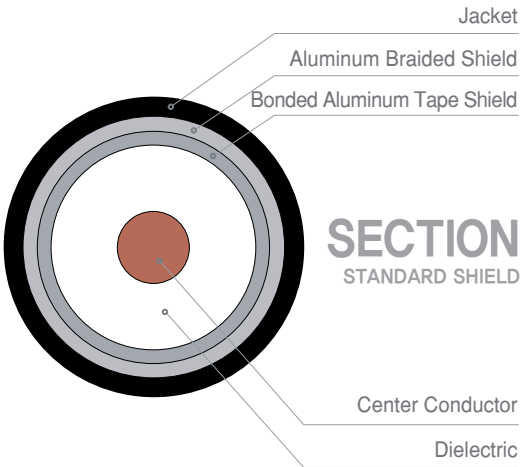
Physical Dimensions

Table with 3 columns: Component (Nominal), Inches, mm. Rows include Center Conductor Diameter, Diameter Over Dielectric, Diameter Over First Shield (Tape), and Diameter Over Second Shield.

Table with 2 columns: Electrical Characteristics, Values. Rows include Impedance (75 ± 3 ohms) and Velocity of Propagation (> 82%).

Attenuation [@ 68° F. (20° C.)]

Table with 3 columns: Frequency (MHz), Maximum (dB/100 ft), Maximum (dB/100 m). Rows show attenuation values for frequencies from 5 MHz to 1000 MHz.





ESCA-M059Q
SUPER(QUAD)-SHIELD

CONSTRUCTION

Series 59 75ohm CATV mini Headend Coaxial Cable, 23 AWG Copper clad steel center conductor, gas foamed polyethylene dielectric, first shield aluminum-polymer-aluminum(APA) laminated tape with overlap bonded to dielectric, second shield of 36 AWG aluminum braid wire coverage rate min 95%, third shield aluminum-polymer-aluminum(APA) laminated tape, fourth shield of 36 AWG aluminum braid wire coverage rate min 95%, jacket of polyvinylchloride

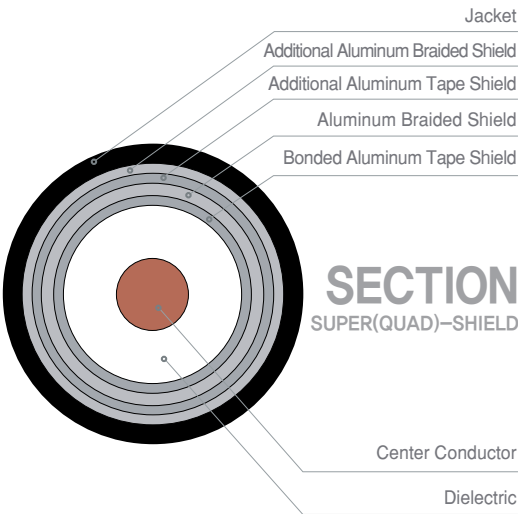
Physical Dimensions

Component (Nominal)	Inches	mm
Center Conductor Diameter	0.0226	0.57
Diameter Over Dielectric	0.100	2.54
Diameter Over First Shield (Tape)	0.107	2.72
Diameter Over Second Shield	0.127	3.23
Diameter Over Third Shield	0.131	3.33
Diameter Over Fourth Shield	0.151	3.84
Diameter Over Jacket	0.202	5.13

Electrical Characteristics	
Impedance	75±3 ohms
Velocity of Propagation	> 82%

Attenuation [@ 68° F. (20° C.)]

Frequency (MHz)	Maximum (dB/100 ft)	Maximum (dB/100 m)
5	1.00	3.28
55	2.82	9.25
211	5.30	17.39
250	5.72	18.77
300	6.26	20.54
350	6.75	22.15
400	7.25	23.79
450	7.70	25.26
500	8.11	26.61
550	8.54	28.02
600	8.92	29.97
750	10.01	32.84
870	10.79	35.40
1000	11.62	38.13





ESCA-059S
STANDARD SHIELD

CONSTRUCTION

Series 59, 75ohm Single Tape & Braid wire Coaxial Drop Cable, 20 AWG Copper clad steel center conductor, gas foamed polyethylene dielectric, first shield aluminum-polymer-alumi-num(APA) laminated tape with overlap bonded to dielectric, second shield of 34 AWG aluminum braid wire coverage rate min 67% , jacket of black polyvinylchloride or polyethylene (flooded).

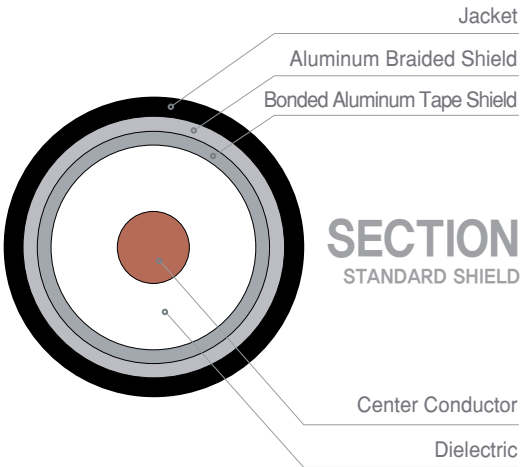
Physical Dimensions

Table with 3 columns: Component (Nominal), Inches, mm. Rows include Center Conductor Diameter, Diameter Over Dielectric, Diameter Over First Shield (Tape), Diameter Over Second Shield (Braid Wire), and Diameter Over Jacket.

Table with 2 columns: Electrical Characteristics, Values. Rows include Impedance (75 ± 3 ohms) and Velocity of Propagation (> 82%).

Attenuation [@ 68° F. (20° C.)]

Table with 3 columns: Frequency (MHz), Maximum (dB/100 ft), Maximum (dB/100 m). Rows show attenuation values for frequencies from 5 MHz to 1000 MHz.





ESCA-059T
TRI-SHIELD

CONSTRUCTION

Series 59, 75ohm Single Tape & Braid wire & APA tape Coaxial Drop Cable, 20 AWG Copper clad steel center conductor, gas foamed polyethylene dielectric, first shield aluminum-polymer-aluminum(APA) laminated tape with overlap bonded to dielectric, second shield of 34 AWG aluminum braid wire coverage rate min 67%, third shield aluminum-polymer-aluminum(APA) laminated tape, jacket of black polyvinylchloride or polyethylene (flooded).

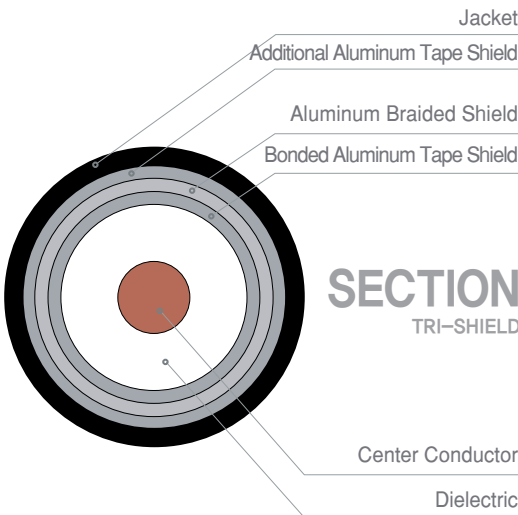
Physical Dimensions

Component (Nominal)	Inches	mm
Center Conductor Diameter	0.032	0.81
Diameter Over Dielectric	0.144	3.66
Diameter Over First Shield (Tape)	0.152	3.86
Diameter Over Second Shield (Braid Wire)	0.177	4.50
Diameter Over Third Shield (Tape)	0.181	4.61
Diameter Over Jacket	0.244	6.20

Electrical Characteristics	
Impedance	75±3 ohms
Velocity of Propagation	> 82%

Attenuation [@ 68° F. (20° C.)]

Frequency (MHz)	Maximum (dB/100 ft)	Maximum (dB/100 m)
5	0.86	2.82
55	2.05	6.73
83	2.45	8.04
187	3.60	11.81
211	3.80	12.47
250	4.10	13.45
300	4.45	14.60
350	4.80	15.75
400	5.10	16.73
450	5.40	17.72
500	5.70	18.70
550	5.95	19.52
600	6.20	20.34
750	6.97	22.87
870	7.57	24.85
1000	8.12	26.64





ESCA-059Q
SUPER(QUAD)-SHIELD

CONSTRUCTION

Series 59, 75ohm Single Tape & Braid wire & APA tape & Braid wire Coaxial Drop Cable, 20 AWG Copper clad steel center conductor, gas foamed polyethylene dielectric, first shield aluminum-polymer-aluminum(APA) laminated tape with overlap bonded to dielectric, second shield of 34AWG aluminum braid wire coverage rate min 67%, third shield aluminum-polymer-aluminum laminated tape, fourth shield of 34 AWG aluminum braid wire coverage rate min 40%, jacket of black polyvinylchloride or polyethylene (flooded).

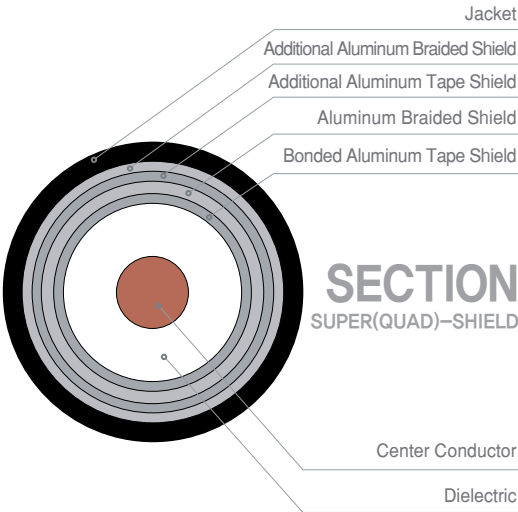
Physical Dimensions

Table with 3 columns: Component (Nominal), Inches, mm. Rows include Center Conductor Diameter, Diameter Over Dielectric, Diameter Over First Shield (Tape), Diameter Over Second Shield, Diameter Over Third Shield, Diameter Over Fourth Shield, and Diameter Over Jacket.

Table with 2 columns: Electrical Characteristics, Values. Rows include Impedance (75 ± 3 ohms) and Velocity of Propagation (> 82%).

Attenuation [@ 68° F. (20° C.)]

Table with 3 columns: Frequency (MHz), Maximum (dB/100 ft), Maximum (dB/100 m). Rows show attenuation values for frequencies from 5 MHz to 1000 MHz.





ESCA-059M

MESSENGER

CONSTRUCTION

Series 59, 75ohm Single Tape & Braid wire & messenger Coaxial Drop Cable, 20 AWG Copper clad steel center conductor, gas foamed polyethylene dielectric, first shield aluminum-polymer-aluminum(APA) laminated tape with overlap bonded to dielectric, second shield of 34 AWG aluminum braid wire coverage rate min 67% , jacket of black polyvinylchloride or polyethylene (flooded) . Zinc coated steel messenger wire

Physical Dimensions

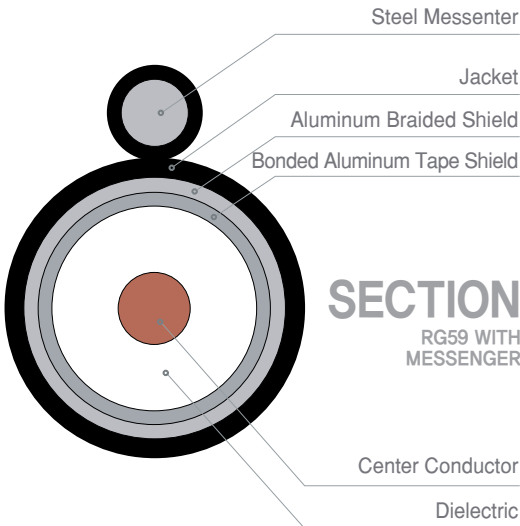
Component (Nominal)	Inches	mm
Center Conductor Diameter	0.032	0.81
Diameter Over Dielectric	0.144	3.66
Diameter Over First Shield (Tape)	0.152	3.86
Diameter Over Second Shield (Braiding)	0.177	4.50
Diameter Over Jacket	0.240	6.10
Diameter of Steel Messenger	0.051 (single)	1.30

Mechanical Characteristics			
Minimum breaking strength of messenger	(0.051)	170 lbs	77.1kgf

Electrical Characteristics	
Impedance	75±3 ohms
Velocity of Propagation	> 82%

Attenuation [@ 68°F. (20°C.)]

Frequency (MHz)	Maximum (dB/100 ft)	Maximum (dB/100 m)
5	0.86	2.82
55	2.05	6.73
83	2.45	8.04
187	3.60	11.81
211	3.80	12.47
250	4.10	13.45
300	4.45	14.60
350	4.80	15.75
400	5.10	16.73
450	5.40	17.72
500	5.70	18.70
550	5.95	19.52
600	6.20	20.34
750	6.97	22.87
870	7.57	24.85
1000	8.12	26.64





ESCA-059HEC
SUPER(QUAD)-SHIELD

CONSTRUCTION

Series 59 75ohm CATV Headend Coaxial Cable,
20 AWG Silver-plated copper clad steel center conductor, gas foamed polyethylene dielectric, first shield aluminum-polymer-aluminum(APA) laminated tape with overlap bonded to dielectric, second shield of 34 AWG aluminum braid wire coverage rate min 95%, third shield aluminum-polymer-aluminum(APA) laminated tape, fourth shield of 34 AWG aluminum braid wire coverage rate min 95%, jacket of polyvinylchloride.

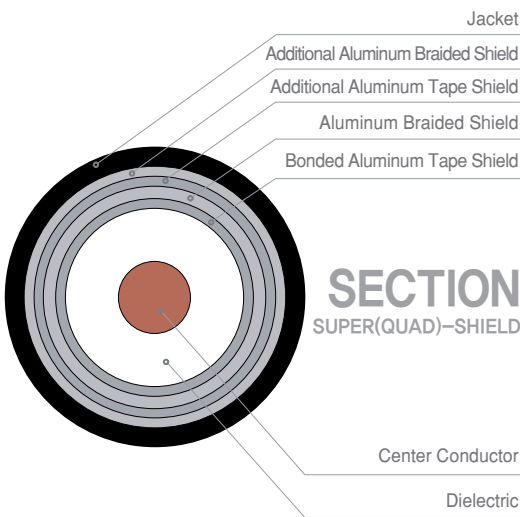
Physical Dimensions

Table with 3 columns: Component (Nominal), Inches, mm. Rows include Center Conductor Diameter, Diameter Over Dielectric, Diameter Over First Shield (Tape), Diameter Over Second Shield, Diameter Over Third Shield, Diameter Over Fourth Shield, and Diameter Over Jacket.

Table with 2 columns: Electrical Characteristics, Values. Rows include Impedance (75 ± 3 ohms) and Velocity of Propagation (> 85%).

Attenuation [@ 68° F. (20° C.)]

Table with 3 columns: Frequency (MHz), Maximum (dB/100 ft), Maximum (dB/100 m). Rows show attenuation values for frequencies from 5 MHz to 1000 MHz.





ESCA-006S
STANDARD SHIELD

CONSTRUCTION

Series 6, 75ohm Single Tape & Braid wire Coaxial Drop Cable, 18 AWG copper clad steel center conductor, gas foamed polyethylene dielectric, first shield aluminum-polymer-aluminum(APA) laminated tape with overlap bonded to dielectric, Second shield of 34 AWG aluminum braid wire coverage rate 60%, jacket of black polyvinylchloride or polyethylene (flooded).

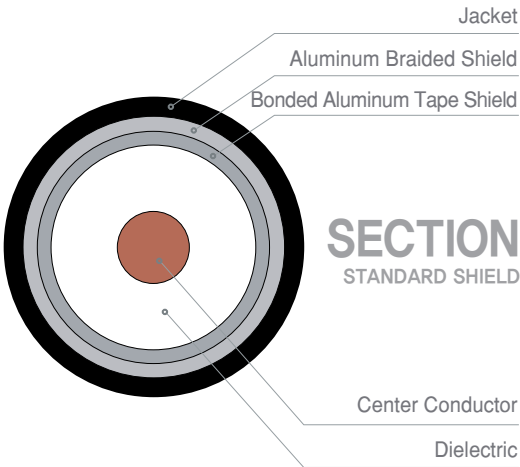
Physical Dimensions

Table with 3 columns: Component (Nominal), Inches, mm. Rows include Center Conductor Diameter, Diameter Over Dielectric, Diameter Over First Shield (Tape), Diameter Over Second Shield (Braid Wire), and Diameter Over Jacket.

Table with 2 columns: Electrical Characteristics, Values. Rows include Impedance (75 ± 3 ohms) and Velocity of Propagation (> 82%).

Attenuation [@ 68° F. (20° C.)]

Table with 3 columns: Frequency (MHz), Maximum (dB/100 ft), Maximum (dB/100 m). Rows show attenuation values for frequencies from 5 MHz to 1000 MHz.





ESCA-006T
TRI-SHIELD

CONSTRUCTION

Series 6, 75ohm Single Tape & Braid wire & APA tape Coaxial Drop Cable, 18 AWG copper clad steel center conductor, gas foamed polyethylene dielectric, first shield aluminum-polymer-aluminum(APA) laminated tape with overlap bonded to dielectric, second shield of 34 AWG aluminum braid wire coverage rate 60%., third shield aluminum-polymer-aluminum(APA) laminated tape, jacket of black polyvinylchloride(flooded).

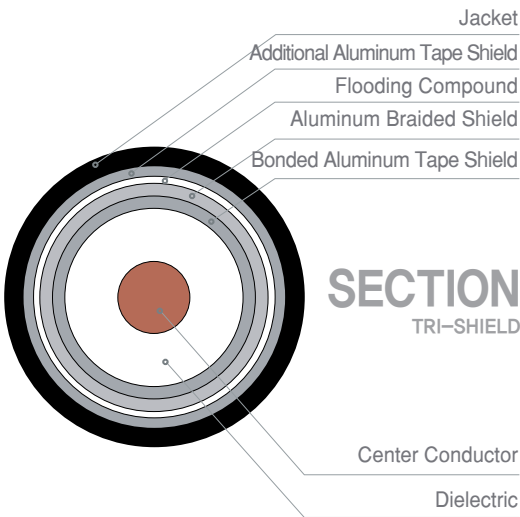
Physical Dimensions

Table with 3 columns: Component (Nominal), Inches, mm. Rows include Center Conductor Diameter, Diameter Over Dielectric, Diameter Over First Shield (Tape), Diameter Over Second Shield, Diameter Over Third Shield, and Diameter Over Jacket.

Table with 2 columns: Electrical Characteristics, values. Rows include Impedance (75 ± 3 ohms) and Velocity of Propagation (> 82%).

Attenuation [@ 68° F. (20° C.)]

Table with 3 columns: Frequency (MHz), Maximum (dB/100 ft), Maximum (dB/100 m). Rows show attenuation values for frequencies from 5 MHz to 1000 MHz.





ESCA-006Q
SUPER(QUAD)-SHIELD

CONSTRUCTION

Series 6, 75ohm Single Tape & Braid wire & APA tape & Braid wire Coaxial Drop Cable, 18 AWG copper clad steel center conductor, gas foamed polyethylene dielectric, first shield aluminum-polymer-aluminum(APA) laminated tape with overlap bonded to dielectric,second shield of 34 AWG aluminum braid wire coverage rate 60%, third shield aluminum-polymer-aluminum(APA) laminated tape, fourth shield of 34 AWG bare aluminum braid wire coverage rate 40%, jacket of black polyvinylchloride(flooded).

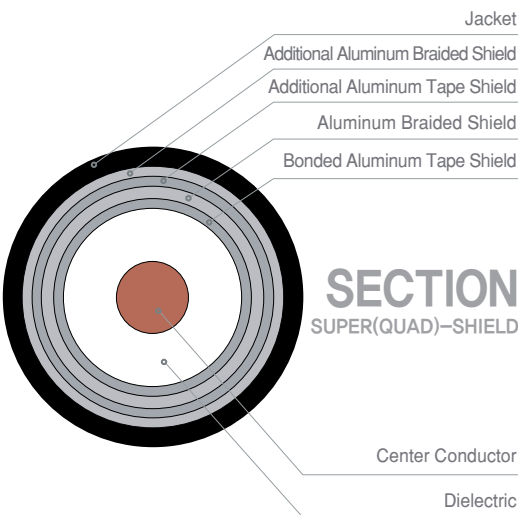
Physical Dimensions

Component (Nominal)	Inches	mm
Center Conductor Diameter	0.040	1.02
Diameter Over Dielectric	0.180	4.57
Diameter Over First Shield (Tape)	0.188	4.78
Diameter Over Second Shield	0.213	5.42
Diameter Over Third Shield	0.217	5.53
Diameter Over Fourth Shield	0.242	6.17
Diameter Over Jacket	0.297	7.54

Electrical Characteristics	
Impedance	75±3 ohms
Velocity of Propagation	> 82%

Attenuation [@ 68° F. (20° C.)]

Frequency (MHz)	Maximum (dB/100 ft)	Maximum (dB/100 m)
5	0.58	1.90
55	1.60	5.25
83	1.95	6.40
187	2.85	9.35
211	3.05	10.00
250	3.30	10.82
300	3.55	11.64
350	3.85	12.63
400	4.15	13.61
450	4.40	14.43
500	4.66	15.29
550	4.90	16.08
600	5.10	16.73
750	5.65	18.54
865	6.10	20.01
1000	6.55	21.49





ESCA-006M

MESSENGER

CONSTRUCTION

Series 6, 75ohm Single Tape & Braid wire & messenger Coaxial Drop Cable, 18 AWG copper clad steel center conductor, gas foamed polyethylene dielectric, first shield aluminum-polymer-aluminum (APA) laminated tape with overlap bonded to dielectric, Second shield of 34 AWG aluminum braid wire coverage rate 60%, jacket of black polyvinylchloride or polyethylene (flooded).
Zinc coated steel messenger wire.

Physical Dimensions

Component (Nominal)	Inches	mm
Center Conductor Diameter	0.040	1.02
Diameter Over Dielectric	0.180	4.57
Diameter Over First Shield (Tape)	0.188	4.78
Diameter Over Second Shield (Braiding)	0.213	5.42
Diameter Over Jacket	0.273	6.93
Jacket Wall Thickness	0.030	0.76
Diameter of Steel Messenger	0.051 (single) 0.072 (dual)	1.30 1.83

Mechanical Characteristics

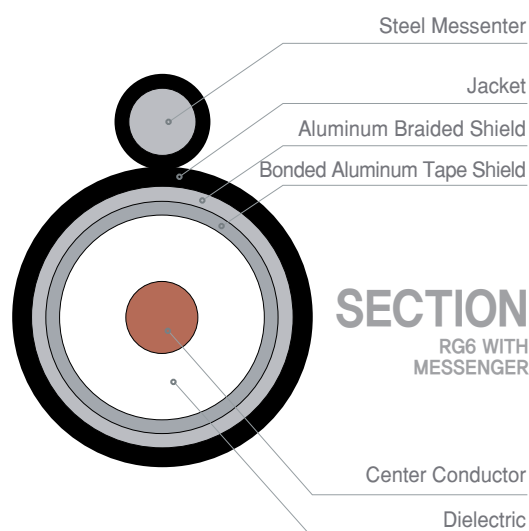
Minimum breaking strength of messenger	(0.051)	170 lbs	77.1kgf
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Electrical Characteristics

Impedance	75 ± 3 ohms
Velocity of Propagation	> 82%

Attenuation [@ 68° F. (20° C.)]

Frequency (MHz)	Maximum (dB/100 ft)	Maximum (dB/100 m)
5	0.58	1.90
55	1.60	5.25
83	1.95	6.40
187	2.85	9.35
211	3.05	10.00
250	3.30	10.82
300	3.55	11.64
350	3.85	12.63
400	4.15	13.61
450	4.40	14.43
500	4.66	15.29
550	4.90	16.08
600	5.10	16.73
750	5.65	18.54
865	6.10	20.01
1000	6.55	21.49





ESCA-011S
STANDARD SHIELD

CONSTRUCTION

Series 11, 75ohm Single Tape & Braid wire & APA tape Coaxial Drop Cable,, 18 AWG copper clad steel center conductor, gas foamed polyethylene dielectric, first shield aluminum-polymer-aluminum(APA) laminated tape with overlap bonded to dielectric, second shield of 34 AWG aluminum braid wire coverage rate 60%, jacket of black polyvinylchloride(flooded).

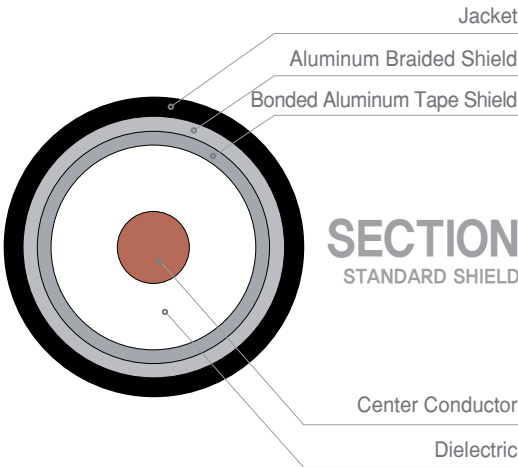
Physical Dimensions

Component (Nominal)	Inches	mm
Center Conductor Diameter	0.064	1.63
Diameter Over Dielectric	0.280	7.11
Diameter Over First Shield (Tape)	0.288	7.32
Diameter Over Second Shield	0.313	7.96
Diameter Over Jacket	0.040	10.16

Electrical Characteristics	
Impedance	75±3 ohms
Velocity of Propagation	> 82%

Attenuation [@ 68° F. (20° C.)]

Frequency (MHz)	Maximum (dB/100 ft)	Maximum (dB/100 m)
5	0.38	1.25
55	0.96	3.15
83	1.18	3.87
187	1.75	5.74
211	1.90	6.23
250	2.05	6.72
300	2.25	7.38
350	2.42	7.94
400	2.60	8.53
450	2.75	9.02
500	2.90	9.51
550	3.04	9.97
600	3.18	10.43
750	3.65	11.97
865	3.98	13.05
1000	4.35	14.27





ESCA-011T
TRI-SHIELD

CONSTRUCTION

Series 11, 75ohm Single Tape & Braid wire & APA tape Coaxial Drop Cable, 14 AWG copper clad steel center conductor, gas foamed polyethylene dielectric, first shield aluminum-polymer-aluminum(APA) laminated tape with overlap bonded to dielectric, second shield of 34 AWG aluminum braid wire coverage rate 60%., third shield aluminum-polymer-aluminum(APA) laminated tape, jacket of black polyvinylchloride(flooded).

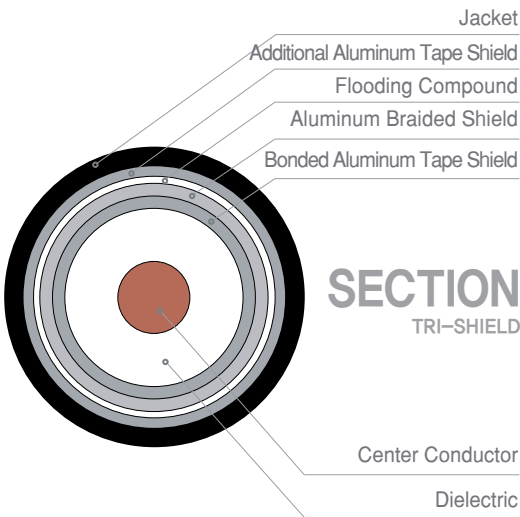
Physical Dimensions

Table with 3 columns: Component (Nominal), Inches, mm. Rows include Center Conductor Diameter, Diameter Over Dielectric, Diameter Over First Shield (Tape), Diameter Over Second Shield, Diameter Over Third Shield (Tape), and Diameter Over Jacket.

Table with 2 columns: Electrical Characteristics, Values. Rows include Impedance (75 ± 3 ohms) and Velocity of Propagation (> 82%).

Attenuation [@ 68° F. (20° C.)]

Table with 3 columns: Frequency (MHz), Maximum (dB/100 ft), Maximum (dB/100 m). Rows show attenuation values for frequencies from 5 MHz to 1000 MHz.





ESCA-011Q
SUPER(QUAD)-SHIELD

CONSTRUCTION

Series 11, 75ohm Single Tape & Braid wire & APA tape & Braid wire Coaxial Drop Cable, 14 AWG copper clad steel center conductor, gas foamed polyethylene dielectric, first shield aluminum-polymer-aluminum(APA) laminated tape with overlap bonded to dielectric, second shield of 34 AWG aluminum braid wire coverage rate 60%, third shield aluminum-polymer-aluminum(APA) laminated tape, fourth shield of 34 AWG aluminum braid wire coverage rate 40%, jacket of black polyvinylchloride(flooded).

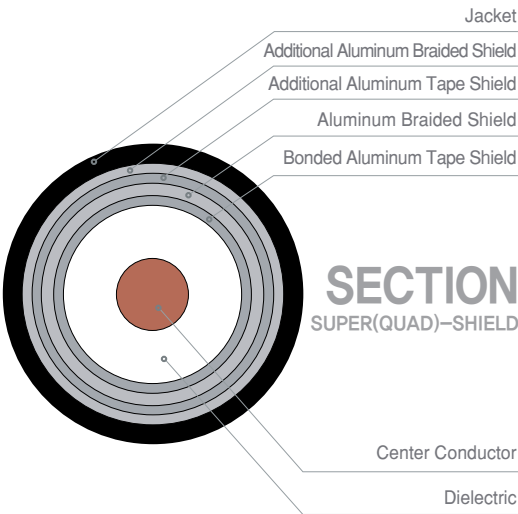
Physical Dimensions

Component (Nominal)	Inches	mm
Center Conductor Diameter	0.064	1.63
Diameter Over Dielectric	0.280	7.11
Diameter Over First Shield (Tape)	0.287	7.29
Diameter Over Second Shield	0.313	7.96
Diameter Over Third Shield	0.317	8.07
Diameter Over Fourth Shield	0.342	8.71
Diameter Over Jacket	0.407	10.34

Electrical Characteristics	
Impedance	75±3 ohms
Velocity of Propagation	> 82%

Attenuation [@ 68° F. (20° C.)]

Frequency (MHz)	Maximum (dB/100 ft)	Maximum (dB/100 m)
5	0.38	1.25
55	0.96	3.15
83	1.18	3.87
187	1.75	5.74
211	1.90	6.23
250	2.05	6.72
300	2.25	7.38
350	2.42	7.94
400	2.60	8.53
450	2.75	9.02
500	2.90	9.51
550	3.04	9.97
600	3.18	10.43
750	3.65	11.97
865	3.98	13.05
1000	4.35	14.27





ESCA-011M
MESSENGER

CONSTRUCTION

Series 11, 75ohm Single Tape & Braid wire & messenger Coaxial Drop Cable, 14 AWG copper clad steel center conductor, gas foamed polyethylene dielectric, first shield aluminum-polymer-aluminum(APA) laminated tape with overlap bonded to dielectric, second shield of 34 AWG aluminum braid wire coverage rate 60%., jacket of black polyvinylchloride(flooded). Zinc coated steel messenger wire.

Physical Dimensions

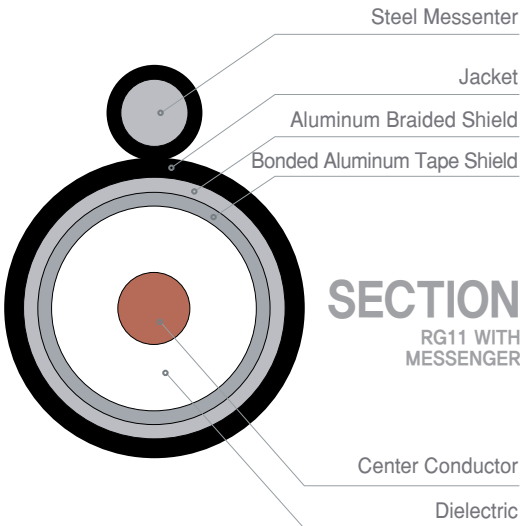
Table with 3 columns: Component (Nominal), Inches, mm. Rows include Center Conductor Diameter, Diameter Over Dielectric, Diameter Over First Shield (Tape), Diameter Over Second Shield (Braiding), Diameter Over Jacket, and Diameter of Steel Messenger.

Table with 4 columns: Mechanical Characteristics, Minimum breaking strength of messenger, (0.072), 346 lbs, 157kgf.

Table with 2 columns: Electrical Characteristics, Impedance, 75±3 ohms; Velocity of Propagation, > 82%.

Attenuation [@ 68° F. (20° C.)]

Table with 3 columns: Frequency (MHz), Maximum (dB/100 ft), Maximum (dB/100 m). Rows list frequencies from 5 to 1000 MHz and corresponding attenuation values.



SECTION
RG11 WITH MESSENGER



ESCA-SA320S
STANDARD

CONSTRUCTION

Series 320, 75ohm Smooth Subscriber Access Cable,
This cable is used to distribute radio frequency (R.F) signals and power for voice, data, and video applications.
Copper Clad Aluminum center conductor, gas foamed polyethylene dielectric,
The outer conductor is consist of a continuous extruded or welded tube of aluminum.
jacket of black polyethylene

Physical Dimensions

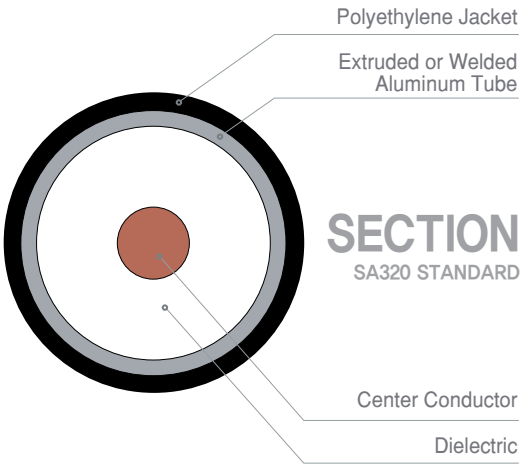
Component (Nominal)	Inches	mm
Center Conductor Diameter	0.0708	1.80
Diameter Over Dielectric	0.294	7.47
Diameter Over Outer Conductor	0.320	8.13
Outer Conductor Thickness	0.013	0.34
Diameter Over Jacket	0.395	10.03
Jacket Thickness(Min.)	0.0025	0.64

Mechanical Characteristics		
Minimum Bending Radius	3.0 in	76.2 mm
Maximum Pulling Tension	120 lbs	54.5 kgf

Electrical Characteristics		
Capacitance	15.3 ± 1.0 pf/ft	50 ± 3.0 nf/km
Impedance	75 ± 3 ohms	
Velocity of Propagation	> 82%	

Attenuation [@ 68° F. (20° C.)]

Frequency (MHz)	Maximum (dB/100 ft)	Maximum (dB/100 m)
5	0.24	0.79
55	0.84	2.76
83	1.07	3.51
211	1.73	5.68
250	1.86	6.10
300	2.04	6.69
350	2.25	7.38
400	2.38	7.81
450	2.52	8.27
500	2.72	8.92
550	2.85	9.35
600	2.98	9.78
750	3.34	10.96
865	3.62	11.87
1000	3.89	12.76





ESCA-SA320U
UNDERGROUND

CONSTRUCTION

Series 320, 75ohm Smooth Subscriber Access Cable,
This cable is used to distribute radio frequency (R,F) signals and power for voice, data, and video applications.
Copper Clad Aluminum center conductor, gas foamed polyethylene dielectric,
The outer conductor is consist of a continuous extruded or welded tube of aluminum.
Underground Floodant, jacket of black polyethylene,

Physical Dimensions

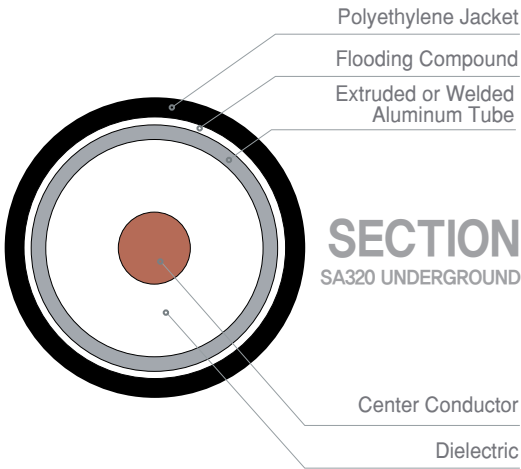
Table with 3 columns: Component (Nominal), Inches, mm. Rows include Center Conductor Diameter, Diameter Over Dielectric, Diameter Over Outer Conductor, Outer Conductor Thickness, Diameter Over Jacket, and Jacket Thickness(Min.).

Table with 3 columns: Mechanical Characteristics, Minimum Bending Radius, Maximum Pulling Tension. Values include 3.0 in, 76.2 mm, 120 lbs, and 54.5 kgf.

Table with 3 columns: Electrical Characteristics, Capacitance, Impedance, Velocity of Propagation. Values include 15.3 ± 1.0 pf/ft, 50 ± 3.0 nf/km, 75 ± 3 ohms, and > 82%.

Attenuation [@ 68° F. (20° C.)]

Table with 3 columns: Frequency (MHz), Maximum (dB/100 ft), Maximum (dB/100 m). Rows show attenuation values for frequencies from 5 to 1000 MHz.





ESCA-SA320M
MESSENGER

CONSTRUCTION

Series 320, 75ohm Smooth Subscriber Access Cable,
This cable is used to distribute radio frequency (R.F) signals and power for voice, data, and video applications.
Copper Clad Aluminum center conductor, gas foamed polyethylene dielectric,
The outer conductor is consist of a continuous extruded or welded tube of aluminum.
jacket of black polyethylene, Zinc coated steel messenger wire.

Physical Dimensions

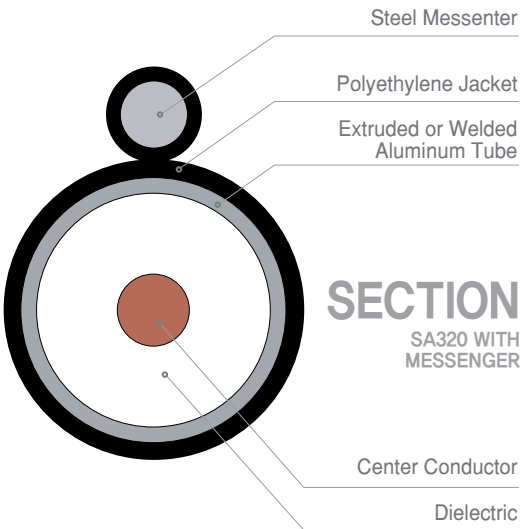
Component (Nominal)	Inches	mm
Center Conductor Diameter	0.0708	1.80
Diameter Over Dielectric	0.294	7.47
Diameter Over Outer Conductor	0.320	8.13
Outer Conductor Thickness	0.013	0.34
Diameter Over Jacket	0.395	10.03
Jacket Thickness(Min.)	0.0375	0.95
Messenger Version Diameter of Steel Messenger	0.083 0.109	2.11 2.77

Mechanical Characteristics		
Minimum Bending Radius	3.0 in	76.2 mm
Maximum Pulling Tension	120 lbs	54.5 kgf

Electrical Characteristics		
Capacitance	15.3 ± 1.0 pf/ft	50 ± 3.0 nf/km
Impedance	75 ± 3 ohms	
Velocity of Propagation	> 82%	

Attenuation [@ 68° F. (20° C.)]

Frequency (MHz)	Maximum (dB/100 ft)	Maximum (dB/100 m)
5	0.24	0.79
55	0.84	2.76
83	1.07	3.51
211	1.73	5.68
250	1.86	6.10
300	2.04	6.69
350	2.25	7.38
400	2.38	7.81
450	2.52	8.27
500	2.72	8.92
550	2.85	9.35
600	2.98	9.78
750	3.34	10.96
865	3.62	11.87
1000	3.89	12.76





ESCA-TD500S
STANDARD

CONSTRUCTION

Series 500, 75ohm Trunk Distribution Coaxial Cable,
This cable is used to distribute radio frequency (R.F.) signals and power as applicable.
Copper Clad Aluminum center conductor, gas foamed polyethylene dielectric,
The outer conductor is consist of a continuous seamless aluminum tube,
jacket of black polyethylene,

Physical Dimensions

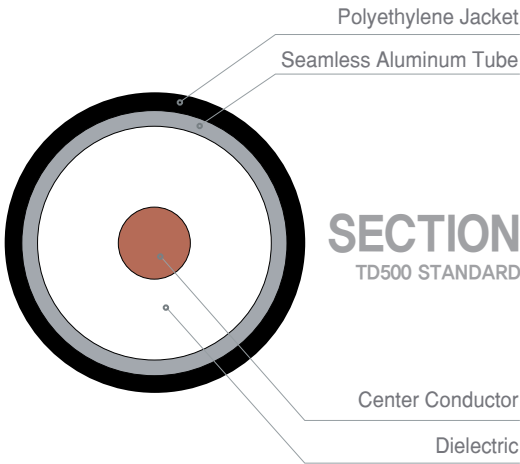
Table with 3 columns: Component (Nominal), Inches, mm. Rows include Center Conductor Diameter, Diameter Over Dielectric, Diameter Over Outer Conductor, Outer Conductor Thickness, Diameter Over Jacket, and Jacket Thickness(Min.).

Table with 3 columns: Mechanical Characteristics, Minimum Bending Radius, Maximum Pulling Tension. Values include 6.0 in / 15.2 cm and 300 lbs / 136 kgf.

Table with 3 columns: Electrical Characteristics, Capacitance, Impedance, Velocity of Propagation. Values include 15.3 ± 1.0 pf/ft, 75 ± 2 ohms, and 87%.

Attenuation [@ 68° F. (20° C.)]

Table with 3 columns: Frequency (MHz), Maximum (dB/100 ft), Maximum (dB/100 m). Rows show attenuation values for frequencies from 5 to 1000 MHz.





ESCA-TD500U
UNDERGROUND

CONSTRUCTION

Series 500, 75ohm Trunk Distribution Coaxial Cable,
This cable is used to distribute radio frequency (R.F.) signals and power.
Copper Clad Aluminum center conductor, gas foamed polyethylene dielectric,
The outer conductor is consist of a continuous seamless aluminum tube.
Underground Floodant , jacket of black polyethylene

Physical Dimensions

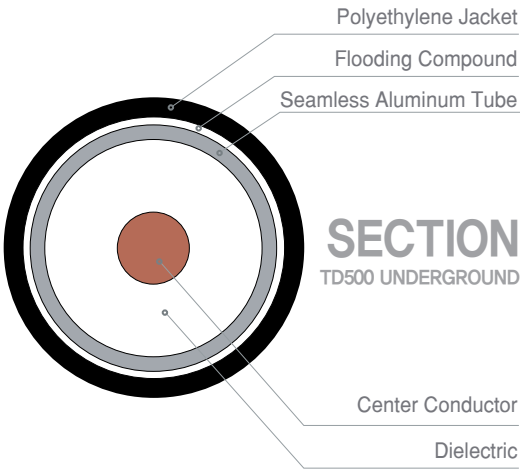
Component (Nominal)	Inches	mm
Center Conductor Diameter	0.109	2.77
Diameter Over Dielectric	0.450	11.43
Diameter Over Outer Conductor	0.500	12.70
Outer Conductor Thickness	0.025	0.64
Normal Diameter Over Flooded Jacket	0.570	14.48
Jacket Wall Thickness	0.030	0.76

Mechanical Characteristics		
Minimum Bending Radius	6.0 in	15.2 cm
Maximum Pulling Tension	300 lbs	136 kgf

Electrical Characteristics		
Capacitance	15.3 ± 1.0 pf/ft	50 ± 3.0 nf/km
Impedance	75 ± 2 ohms	
Velocity of Propagation	87%	

Attenuation [@ 68° F. (20° C.)]

Frequency (MHz)	Maximum (dB/100 ft)	Maximum (dB/100 m)
5	0.16	0.52
55	0.54	1.77
83	0.66	2.17
211	1.09	3.58
250	1.20	3.94
300	1.31	4.30
350	1.43	4.69
400	1.53	5.02
450	1.63	5.35
500	1.73	5.67
550	1.82	5.97
600	1.91	6.27
750	2.16	7.09
865	2.34	7.68
1000	2.52	8.27





ESCA-TD500SS

MESSENGER

CONSTRUCTION

Series 500, 75ohm Trunk Distribution Coaxial Cable,
This cable is used to distribute radio frequency (R.F.) signals and power.
Copper Clad Aluminum center conductor, gas foamed polyethylene dielectric,
The outer conductor is consist of a continuous seamless aluminum tube,
jacket of black polyethylene, Zinc coated steel messenger wire.

Physical Dimensions

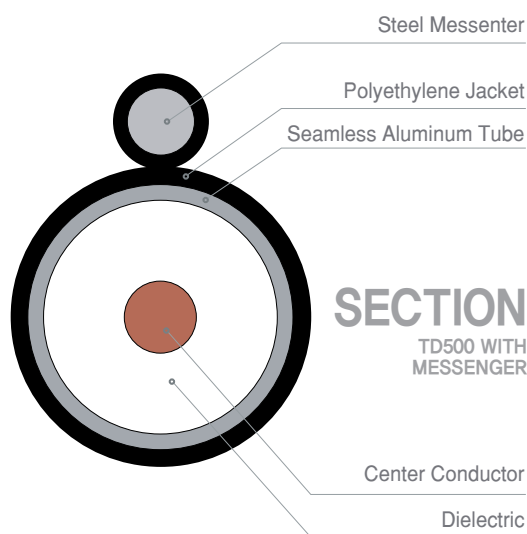
Component (Nominal)	Inches	mm
Center Conductor Diameter	0.109	2.77
Diameter Over Dielectric	0.450	11.43
Diameter Over Outer Conductor	0.500	12.70
Outer Conductor Thickness	0.024	0.61
Diameter Over Jacket	0.560	14.22
Jacket Wall Thickness	0.030	0.76
Messenger Version Diameter of Steel Messenger	0.109	2.77

Mechanical Characteristics			
Minimum Bending Radius		6.0 in	15.2 cm
Maximum Pulling Tension		300 lbs	136 kgf
Minimum Breaking Strength of Messenger (EHS)	(109)	1,800 lbs	816 kgf

Electrical Characteristics	
Capacitance	15.3 ± 1.0 pf/ft 50 ± 3.0 nf/km
Impedance	75 ± 2 ohms
Velocity of Propagation	87%

Attenuation [@ 68° F. (20° C.)]

Frequency (MHz)	Maximum (dB/100 ft)	Maximum (dB/100 m)
5	0.16	0.52
55	0.54	1.77
83	0.66	2.17
211	1.09	3.58
250	1.20	3.94
300	1.31	4.30
350	1.43	4.69
400	1.53	5.02
450	1.63	5.35
500	1.73	5.67
550	1.82	5.97
600	1.91	6.27
750	2.16	7.09
865	2.34	7.68
1000	2.52	8.27





ESCA-TD540S
STANDARD

CONSTRUCTION

Series 540, 75ohm Trunk Distribution Coaxial Cable,
This cable is used to distribute radio frequency (R.F.) signals and power.
Copper Clad Aluminum center conductor, gas foamed polyethylene dielectric,
The outer conductor is consist of a continuous seamless aluminum tube,
jacket of black polyethylene

Physical Dimensions

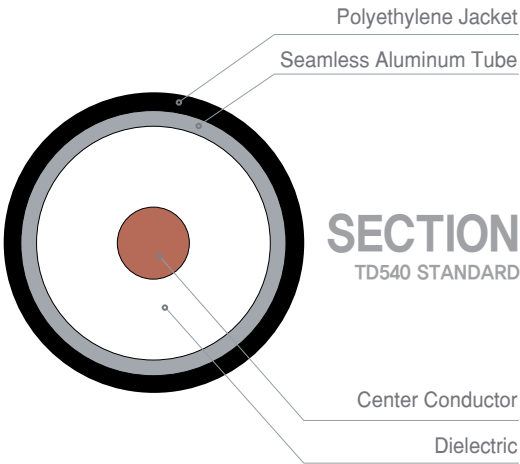
Component (Nominal)	Inches	mm
Center Conductor Diameter	0.124	3.15
Diameter Over Dielectric	0.513	13.03
Diameter Over Outer Conductor	0.540	13.72
Outer Conductor Thickness	0.014	0.340
Diameter Over Flooded Jacket	0.610	15.49
Jacket Wall Thickness(Min.)	0.021	0.53

Mechanical Characteristics		
Minimum Bending Radius	4.0 in	10.2 cm
Maximum Pulling Tension	220 lbs	100 kgf

Electrical Characteristics		
Capacitance	15.3 ± 1.0 pf/ft 50 ± 3.0 nf/km	
Impedance	75 ± 2 ohms	
Velocity of Propagation	87%	

Attenuation [@ 68° F. (20° C.)]

Frequency (MHz)	Maximum (dB/100 ft)	Maximum (dB/100 m)
5	0.14	0.46
55	0.48	1.56
83	0.58	1.90
211	0.95	3.12
250	1.03	3.38
300	1.13	3.71
350	1.23	4.04
400	1.32	4.33
450	1.40	4.59
500	1.49	4.89
550	1.56	5.12
600	1.64	5.38
750	1.85	6.07
865	2.00	6.56
1000	2.17	7.12





ESCA-TD540U

UNDERGROUND

CONSTRUCTION

Series 540, 75ohm Trunk Distribution Coaxial Cable,
This cable is used to distribute radio frequency (R.F.) signals and power.
Copper Clad Aluminum center conductor, gas foamed polyethylene dielectric,
The outer conductor is consist of a continuous seamless aluminum tube.
Underground Floodant , jacket of black polyethylene

Physical Dimensions

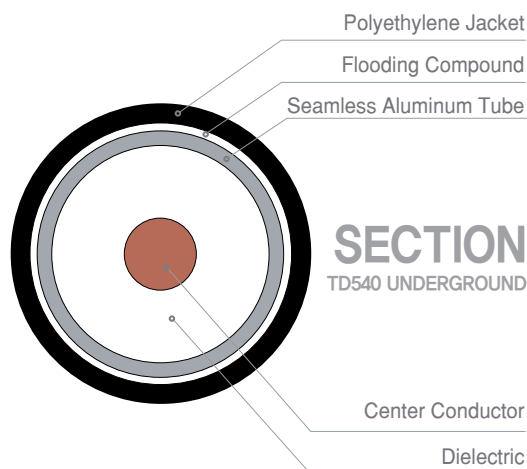
Component (Nominal)	Inches	mm
Center Conductor Diameter	0.124	3.15
Diameter Over Dielectric	0.514	13.05
Diameter Over Outer Conductor	0.540	13.72
Outer Conductor Thickness	0.0135	0.343
Diameter Over Flooded Jacket	0.610	15.49
Jacket Wall Thickness	0.035	0.89

Mechanical Characteristics		
Minimum Bending Radius	4.0 in	10.2 cm
Maximum Pulling Tension	220 lbs	100 kgf

Electrical Characteristics		
Capacitance	15.3 $\pm$ 1.0 pf/ft	50 $\pm$ 3.0 nf/km
Impedance	75 $\pm$ 2 ohms	
Velocity of Propagation	87%	

Attenuation [@ 68° F. (20° C.)]

Frequency (MHz)	Maximum (dB/100 ft)	Maximum (dB/100 m)
5	0.14	0.46
55	0.48	1.56
83	0.58	1.90
211	0.95	3.12
250	1.03	3.38
300	1.13	3.71
350	1.23	4.04
400	1.32	4.33
450	1.40	4.59
500	1.49	4.89
550	1.56	5.12
600	1.64	5.38
750	1.85	6.07
865	2.00	6.56
1000	2.17	7.12





ESCA-TD540M
MESSENGER

CONSTRUCTION

Series 540, 75ohm Trunk Distribution Coaxial Cable,
This cable is used to distribute radio frequency (R.F.) signals and power.
Copper Clad Aluminum center conductor, gas foamed polyethylene dielectric,
The outer conductor is consist of a continuous seamless aluminum tube,
jacket of black polyethylene, Zinc coated steel messenger wire.

Physical Dimensions

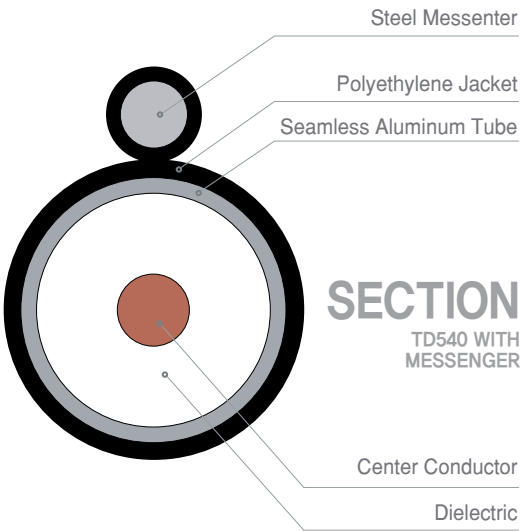
Component (Nominal)	Inches	mm
Center Conductor Diameter	0.124	3.15
Diameter Over Dielectric	0.514	13.05
Diameter Over Outer Conductor	0.540	13.72
Outer Conductor Thickness	0.0135	0.343
Diameter Over Jacket	0.610	15.49
Jacket Wall Thickness	0.035	0.89
Messenger Version Diameter of Steel Messenger	0.109	2.77

Mechanical Characteristics			
Minimum Bending Radius		4.0 in	10.2 cm
Maximum Pulling Tension		220 lbs	100 kgf
Minimum Breaking Strength of Messenger (EHS)	(109)	1,800 lbs	816 kgf

Electrical Characteristics	
Capacitance	15.3 ± 1.0 pf/ft 50 ± 3.0 nf/km
Impedance	75 ± 2 ohms
Velocity of Propagation	88%

Attenuation [@ 68° F. (20° C.)]

Frequency (MHz)	Maximum (dB/100 ft)	Maximum (dB/100 m)
5	0.14	0.46
55	0.48	1.56
83	0.58	1.90
211	0.95	3.12
250	1.03	3.38
300	1.13	3.71
350	1.23	4.04
400	1.32	4.33
450	1.40	4.59
500	1.49	4.89
550	1.56	5.12
600	1.64	5.38
750	1.85	6.07
865	2.00	6.56
1000	2.17	7.12



CONNECTING THE POWERED LIFE

Communication & Infrastructure



OFFICE / PLANT

228-70, Saneop-ro 155beon-gil, Gwonseon-gu, Suwon-si, Gyeonggi-do, Korea
T. +82-70-4571-4700 F. +82-70-4571-4799