ES-TECH
INTERNATIONAL
SOLUTION

CONNECTING THE POWERED LIFE

# 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.

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

# 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

### Broadbanding

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

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

ES-TECH/INTERNATIONAL,Inc.

# 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.

ESCABLE

# Company History

## The below is the footprint of ES-TECH international

Company Scene

Jacketing Line

S/Z Stranding Line

Finished Cables

**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 ProvinceJob 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 Gyonggi 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

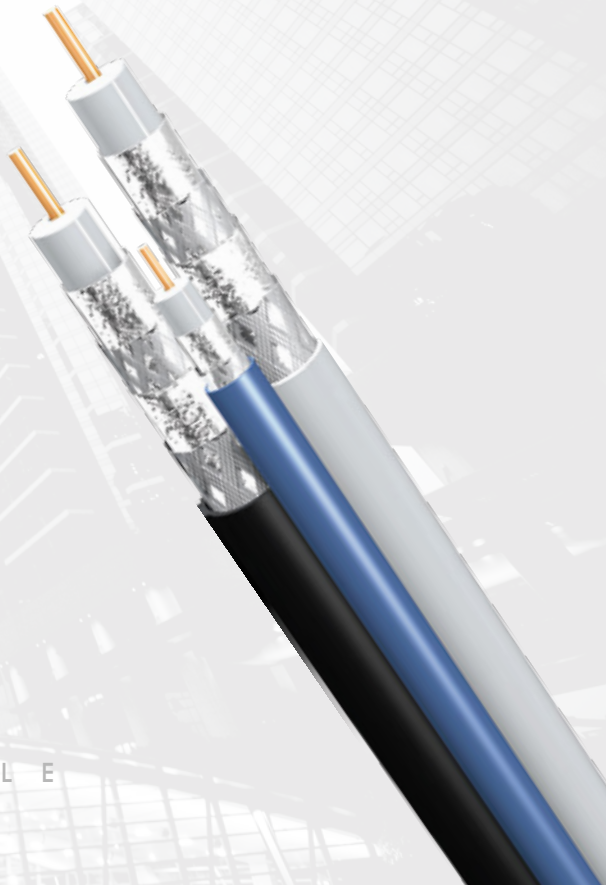
Fiber Optics Power Broadcasting Broadband Networking Telco Cable

ESTECH INTERNATIONAL



# ES-TECH Coaxial Cable

## Drop Cable
## Headend Cable
## Trunk and Distribution Cable



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



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

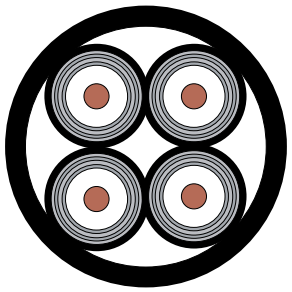
| Pack | Part no | Colors | Inches | mm |
|---|---|---|---|---|
| 4 | ESCA-M059Q4B | Black | 0.496 | 12.6 |
| 8 | ESCA-M059Q8B | Black | 0.866 | 22.0 |

* Custom Bundles are available upon request

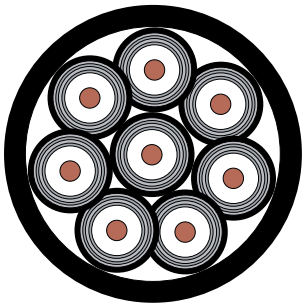
| Electrical Characteristics | |
|---|---|
| Impedance | 75±3 ohms |
| Velocity of Propagation | > 82% |

## 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 |
| ¼" – ¼" 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-alumi-num(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

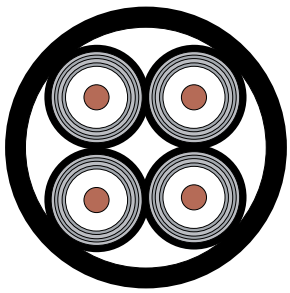
| Pack | Part no | Colors | Inches | mm |
|---|---|---|---|---|
| 4 | ESCA-059Q4B | Black | 0.709 | 18.0 |
| 8 | ESCA-059Q8B | Black | 1.075 | 27.3 |

* Custom Bundles are available upon request

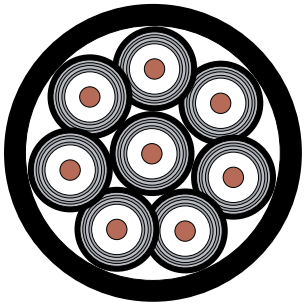
| Electrical Characteristics | |
|---|---|
| Impedance | 75±3 ohms |
| Velocity of Propagation | > 82% |

## 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 |
|---|---|---|---|---|---|
| UNC-059AS-CP | 3.99mm | 6.30mm | White | 50pcs | 1,000pcs |
| UNC-059AT-CP | 3.99mm | 6.40mm | White | 50pcs | 1,000pcs |
| UNC-059AQ-CP | 3.99mm | 6.93mm | White | 50pcs | 1,000pcs |
| UNC-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-alumi-num(APA) laminated tape with overlap bonded to dielectric, second shield of 36 AWG aluminum braid wire coverage rate min 95%, jacket of polyvinylchloride.

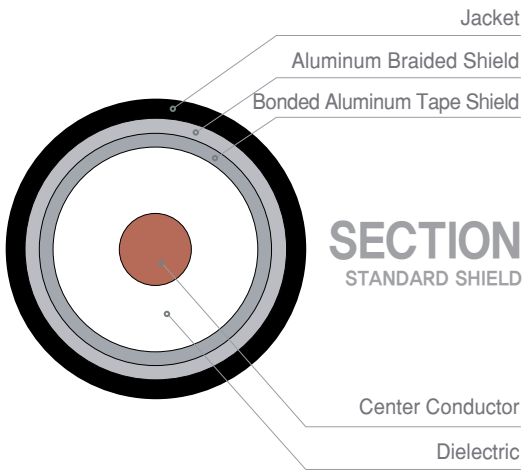
## Physical Dimensions

| 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 |

| 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-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

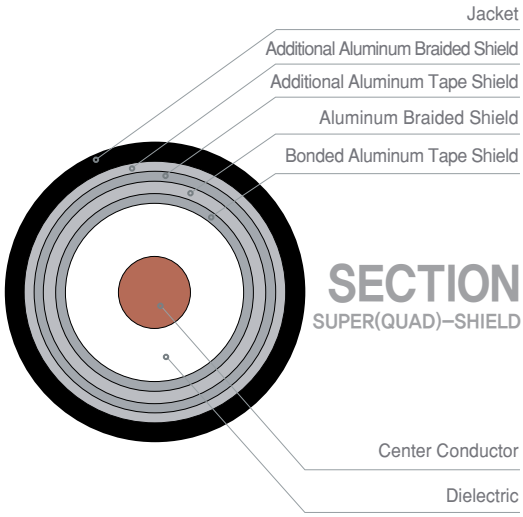
## Physical Dimensions

| 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 |




**SECTION**
SUPER(QUAD)-SHIELD


# 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).

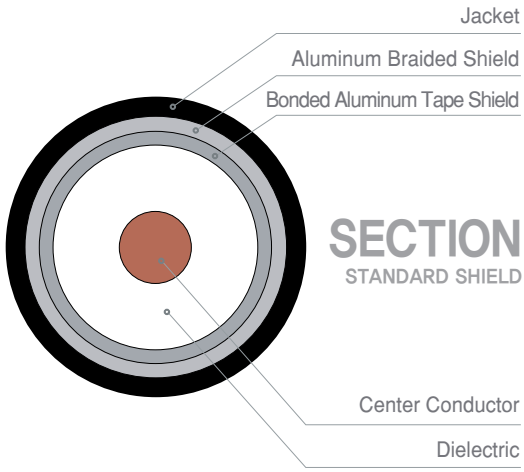
## Physical Dimensions

| 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 Jacket | 0.240 | 6.10 |

| 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 |




SECTION
STANDARD SHIELD


# 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).

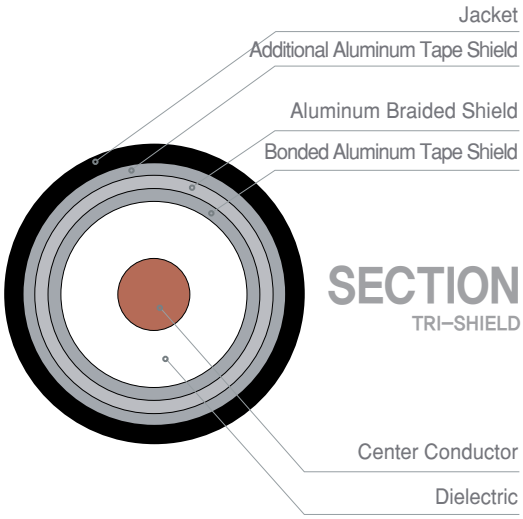
## Physical Dimensions

| 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 |




SECTION
TRI-SHIELD


# 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-alumi-num(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).

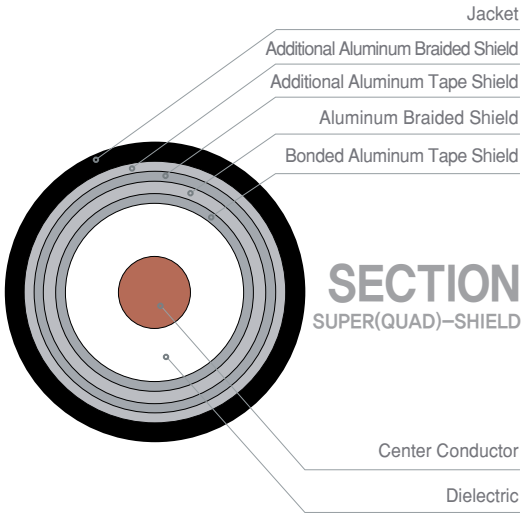
## Physical Dimensions

| 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 |

| 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 |




SECTION
SUPER(QUAD)-SHIELD


# 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-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) .
Zinc coated steel messenger wire

## Physical Dimensions

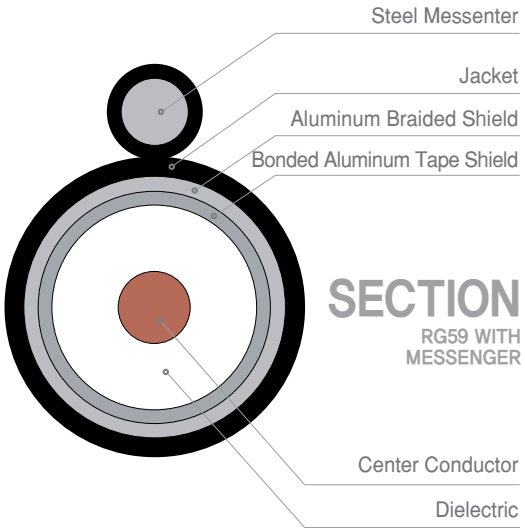
| Component (Nominal) | Inches | mm |
|---|---|---|
| Center Conductor Diameter | 0.032 | 0.81 |
| Diameter Over Dielectric | 0.144 | 3.66 |
| Diameter Over First Shield (Tape) | 0.152 | 3.86 |
| Diameter Over Second Shield (Braiding) | 0.177 | 4.50 |
| Diameter Over Jacket | 0.240 | 6.10 |
| Diameter 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 |




SECTION
RG59 WITH MESSENGER


# 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.

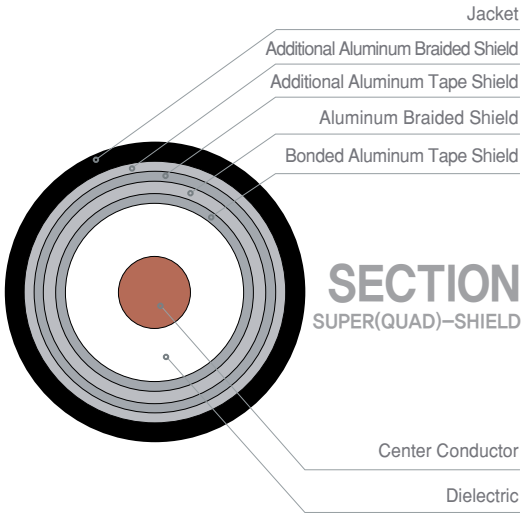
## Physical Dimensions

| 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 |

| Electrical Characteristics | |
|---|---|
| Impedance | 75±3 ohms |
| Velocity of Propagation | > 85% |

## 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 |




**SECTION**
SUPER(QUAD)-SHIELD


# 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-alumi-num(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).

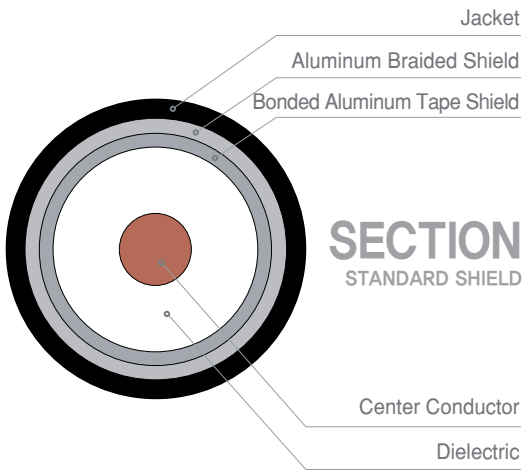
## Physical Dimensions

| 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 (Braid Wire) | 0.213 | 5.42 |
| Diameter Over Jacket | 0.273 | 6.93 |

| 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 |




SECTION
STANDARD SHIELD


# 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).

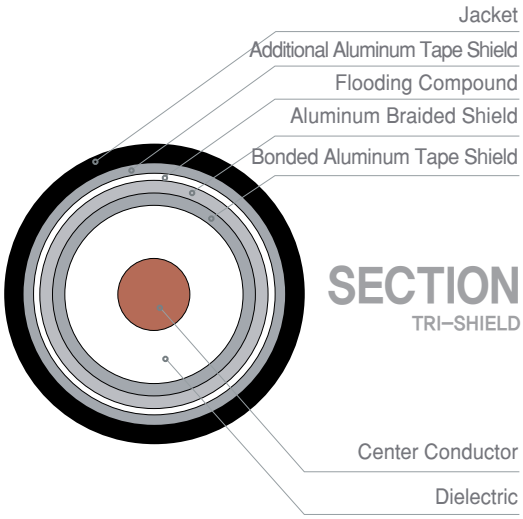
## Physical Dimensions

| 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 Jacket | 0.278 | 7.06 |

| 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 |




SECTION
TRI-SHIELD


# 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).

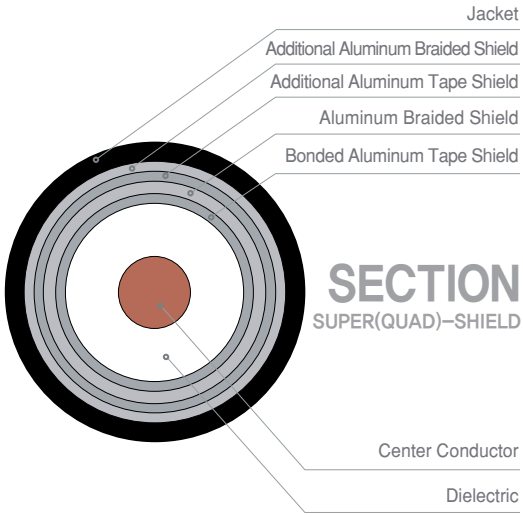
## Physical Dimensions

| 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 |




SECTION
SUPER(QUAD)-SHIELD


# 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-alumi-num(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

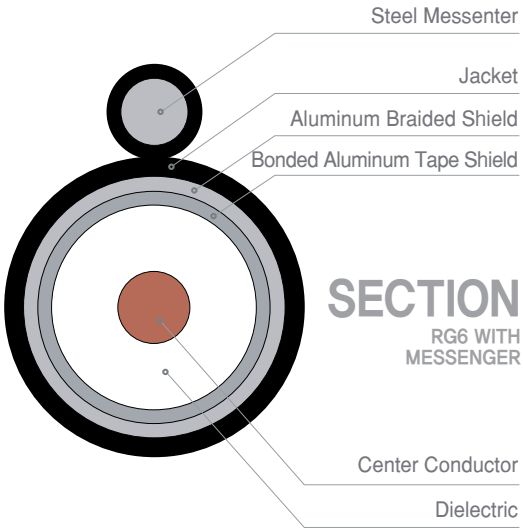
| Component (Nominal) | Inches | mm |
|---|---|---|
| Center Conductor Diameter | 0.040 | 1.02 |
| Diameter Over Dielectric | 0.180 | 4.57 |
| Diameter Over First Shield (Tape) | 0.188 | 4.78 |
| Diameter Over Second Shield (Braiding) | 0.213 | 5.42 |
| Diameter Over Jacket | 0.273 | 6.93 |
| Jacket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

| 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 | 0.58 | 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 |




SECTION
RG6 WITH MESSENGER


# 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-alumi-num(APA) laminated tape with overlap bonded to dielectric, second shield of 34 AWG aluminum braid wire coverage rate 60%, jacket of black polyvinylchloride(flooded).

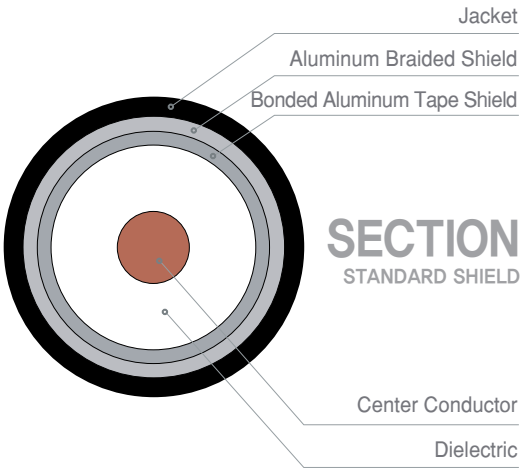
## Physical Dimensions

| 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).

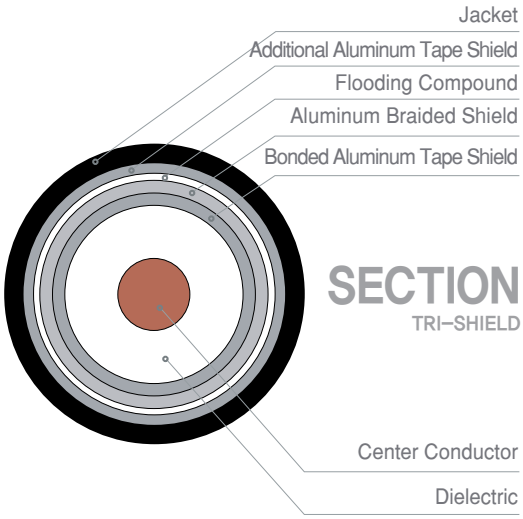
## Physical Dimensions

| 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 Third Shield (Tape) | 0.317 | 8.07 |
| Diameter Over Jacket | 0.400 | 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-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).

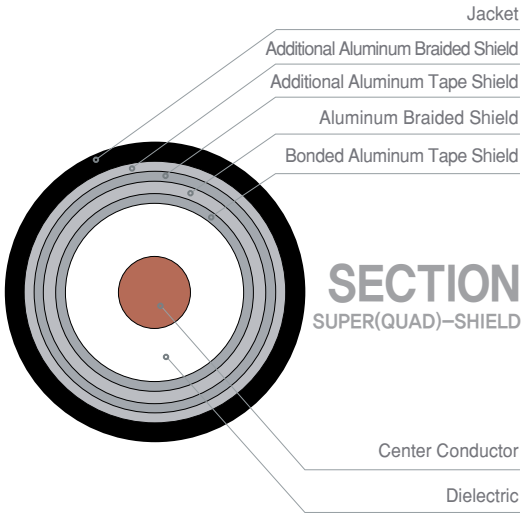
## Physical Dimensions

| 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 |




**SECTION**
SUPER(QUAD)-SHIELD


# 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

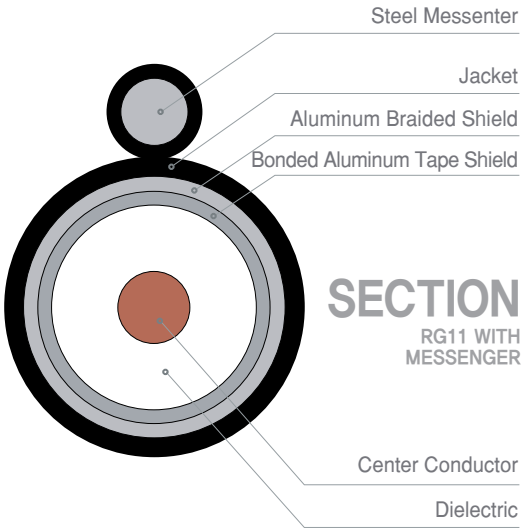
| Component (Nominal) | Inches | mm |
|---|---|---|
| Center Conductor Diameter | 0.064 | 1.63 |
| Diameter Over Dielectric | 0.280 | 7.11 |
| Diameter Over First Shield (Tape) | 0.288 | 7.32 |
| Diameter Over Second Shield (Braiding) | 3.13 | 7.96 |
| Diameter Over Jacket | 0.400 | 10.16 |
| Diameter of Steel Messenger | 0.072 (single) | 1.83 |

| Mechanical Characteristics | | | |
|---|---|---|---|
| Minimum breaking strength of messenger | (0.072) | 346 lbs | 157kgf |

| 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 |




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

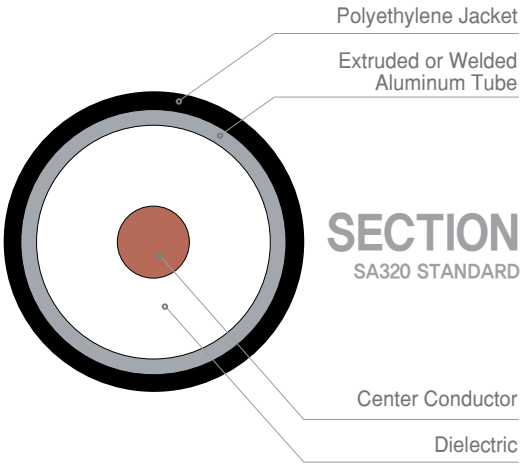
| Component (Nominal) | Inches | mm |
|---|---|---|
| Center Conductor Diameter | 0.0708 | 1.80 |
| Diameter Over Dielectric | 0.294 | 7.47 |
| Diameter Over Outer Conductor | 0.320 | 8.13 |
| Outer Conductor Thickness | 0.013 | 0.34 |
| Diameter Over Jacket | 0.395 | 10.03 |
| Jacket Thickness(Min.)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




SECTION
SA320 STANDARD


# 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

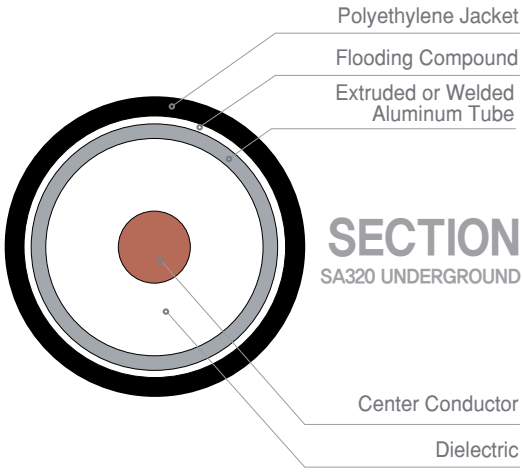
| Component (Nominal) | Inches | mm |
|---|---|---|
| Center Conductor Diameter | 0.0708 | 1.80 |
| Diameter Over Dielectric | 0.294 | 7.47 |
| Diameter Over Outer Conductor | 0.320 | 8.13 |
| Outer Conductor Thickness | 0.013 | 0.34 |
| Diameter Over Jacket | 0.395 | 10.03 |
| Jacket Thickness(Min.) | 0.022 | 0.56 |

| 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 |




SECTION
SA320 UNDERGROUND


# 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

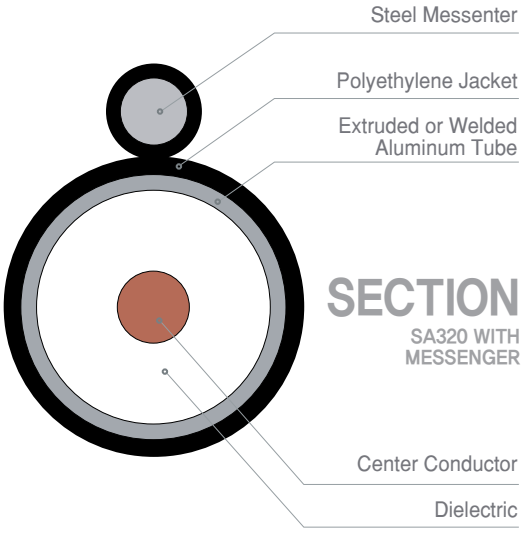
| Component (Nominal) | Inches | mm |
|---|---|---|
| Center Conductor Diameter | 0.0708 | 1.80 |
| Diameter Over Dielectric | 0.294 | 7.47 |
| Diameter Over Outer Conductor | 0.320 | 8.13 |
| Outer Conductor Thickness | 0.013 | 0.34 |
| Diameter Over Jacket | 0.395 | 10.03 |
| Jacket Thickness(Min.)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




**SECTION**
SA320 WITH
MESSENGER


# 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

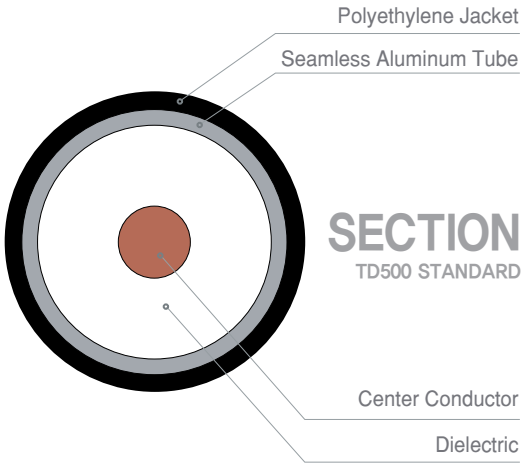
| Component (Nominal) | Inches | mm |
|---|---|---|
| Center Conductor Diameter | 0.109 | 2.77 |
| Diameter Over Dielectric | 0.450 | 11.43 |
| Diameter Over Outer Conductor | 0.500 | 12.70 |
| Outer Conductor Thickness | 0.025 | 0.64 |
| Diameter Over Jacket | 0.560 | 14.22 |
| Jacket Thickness(Min.) | 0.021 | 0.53 |

| 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 |




SECTION
TD500 STANDARD


# 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

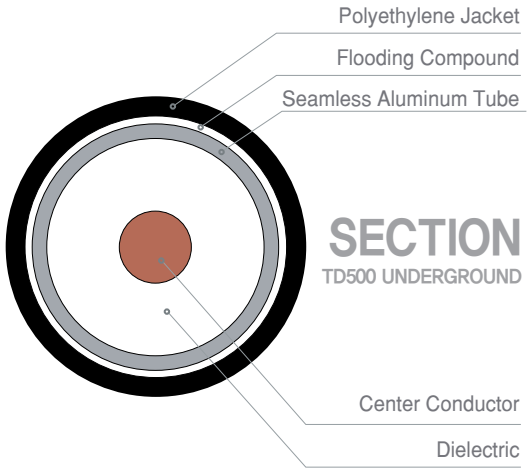
| Component (Nominal) | Inches | mm |
|---|---|---|
| Center Conductor Diameter | 0.109 | 2.77 |
| Diameter Over Dielectric | 0.450 | 11.43 |
| Diameter Over Outer Conductor | 0.500 | 12.70 |
| Outer Conductor Thickness | 0.025 | 0.64 |
| Normal Diameter Over Flooded Jacket | 0.570 | 14.48 |
| Jacket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




SECTION
TD500 UNDERGROUND


# 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

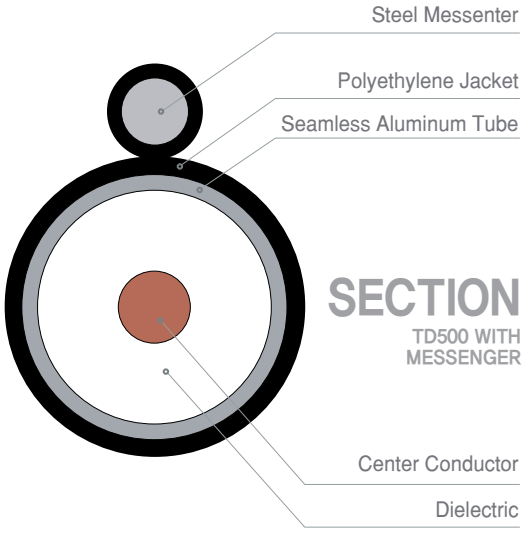
| Component (Nominal) | Inches | mm |
|---|---|---|
| Center Conductor Diameter | 0.109 | 2.77 |
| Diameter Over Dielectric | 0.450 | 11.43 |
| Diameter Over Outer Conductor | 0.500 | 12.70 |
| Outer Conductor Thickness | 0.024 | 0.61 |
| Diameter Over Jacket | 0.560 | 14.22 |
| Jacket Wall Thickness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




SECTION
TD500 WITH MESSENGER


# 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

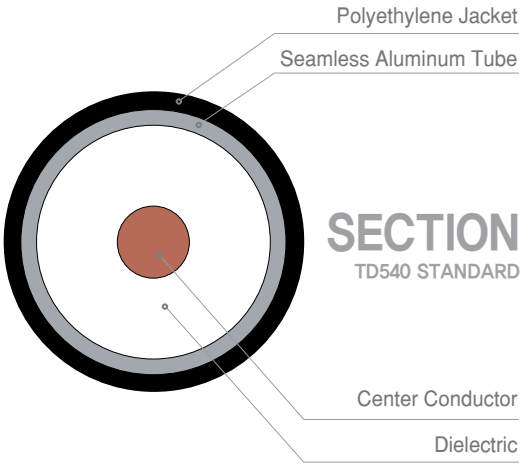
| Component (Nominal) | Inches | mm |
|---|---|---|
| Center Conductor Diameter | 0.124 | 3.15 |
| Diameter Over Dielectric | 0.513 | 13.03 |
| Diameter Over Outer Conductor | 0.540 | 13.72 |
| Outer Conductor Thickness | 0.014 | 0.340 |
| Diameter Over Flooded Jacket | 0.610 | 15.49 |
| Jacket Wall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




SECTION
TD540 STANDARD


# 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

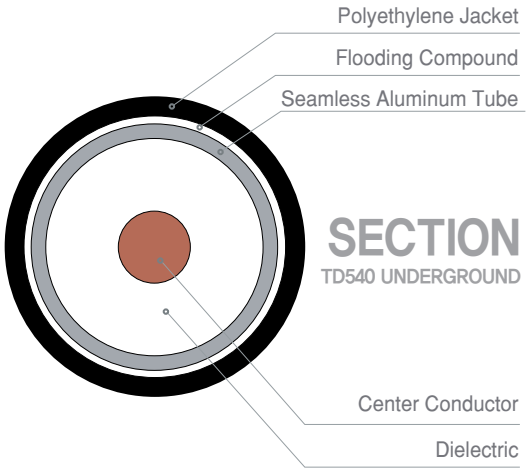
| Component (Nominal) | Inches | mm |
|---|---|---|
| Center Conductor Diameter | 0.124 | 3.15 |
| Diameter Over Dielectric | 0.514 | 13.05 |
| Diameter Over Outer Conductor | 0.540 | 13.72 |
| Outer Conductor Thickness | 0.0135 | 0.343 |
| Diameter Over Flooded Jacket | 0.610 | 15.49 |
| Jacket Wall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




SECTION
TD540 UNDERGROUND


# 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

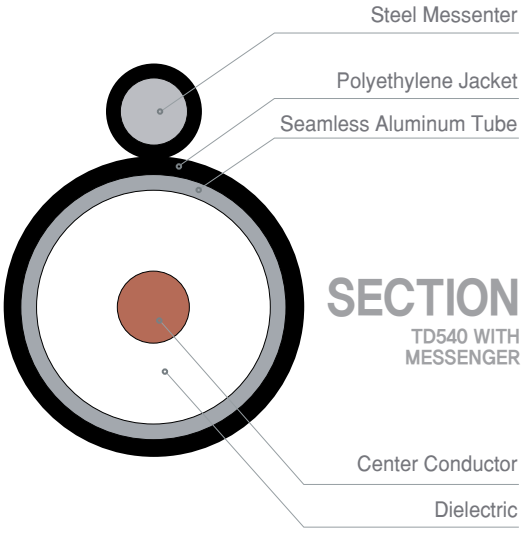
| Component (Nominal) | Inches | mm |
|---|---|---|
| Center Conductor Diameter | 0.124 | 3.15 |
| Diameter Over Dielectric | 0.514 | 13.05 |
| Diameter Over Outer Conductor | 0.540 | 13.72 |
| Outer Conductor Thickness | 0.0135 | 0.343 |
| Diameter Over Jacket | 0.610 | 15.49 |
| Jacket Wall Thickness | 0.035 | 0.89 |
| Messenger Version<br>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 |




**SECTION**
TD540 WITH MESSENGER

# CONNECTING THE POWERED LIFE

Communication & Infrastructure

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