DROP CABLE SERIES

DETAILS OF CONSTRUCTION AND MATERIAL

CENTER CONDUCTOR
Copper-clad steel or solid copper

FIRST OUTER CONDUCTOR
Sealed aluminum-polypropylene-aluminum (APA) laminated tape longitudinally wrapped with an overlap around the dielectric to provide 100% coverage of the dielectric and long-term reliability of shielding performance.

THIRD OUTER CONDUCTOR
Unsealed aluminum-polypropylene-aluminum (APA) laminated tape, in conjunction with the second shield, provides an additional shield for improved signal isolation.

MESSENGER
PVC jacketed, galvanized steel wire integrally attached to cable jacket with easily separable PVC web (see note under Jacket) serves as support for cable.

DIELECTRIC
Closed cell, high velocity precision matrix foamed polyethylene which provides optimum dielectric hardness. The foam is bonded to the center conductor with a clean stripping, proprietary moisture-blocking polymer. Attenuation remains stable from 0% to 100% relative humidity.

SECOND OUTER CONDUCTOR
Standard coverage aluminum alloy wire braids improve shielding ability and provide additional mechanical strength.

FOURTH OUTER CONDUCTOR
Aluminum alloy wire braids, in conjuction with the first braids, sandwiches the second tape assuring good metallic contact in the overlap of the tape.

CORROSION RESISTANT PROTECTANT
(See further explanation under Features, p.36.)

Aerial
lifeTime™ is a dripless compound which remains functional over a temperature range of -40˚F to 190˚F (-40˚C to +90˚C).

Underground
Flooding compound having cold flow properties for self-healing of small jacket ruptures.

JACKET
Protective PVC applied over the braid to environmentally seal the construction. Both black and non-black jackets are UV resistant and may be used outdoors.

Note: Polyethylene jacket used on the 11 Series messengered versions using 0.109 inch (2.77mm) messenger wire, or by special request Polyethylene jackets are also available on underground drop cables. Contact customer service.

Pictured is T10 Drop Cable, Quadshield version showing a complete drop cable construction including Times' exclusive **lifeTime™** protectant.

T10 DROP CABLE SERIES

TIMES FIBER COMMUNICATIONS, INC.®

FEATURES AND BENEFITS

The T10 Drop Cable Series is designed with reducing system operating costs in mind. The construction types offered in this series can be used in a variety of applications which can facilitate smooth system operation.

FLOODING COMPOUND

Recommended for burial cable applications, flooding compound is designed to provide additional internal corrosion protection. Flooding compound primarily prevents moisture ingress by flowing into any small area of jacket damage, acting as a self-healer.

TFC 's burial flooding compound for drop cable is a low viscous material that allows the compound to flow readily into the crevices of the cables outer braid and onto the taped outer conductor.

In addition to required viscosity and flow properties, flooding compounds are chosen for compatibility with the cable materials used and for overall chemical, oxidation and UV resistance properties. Flooding materials are also compounded for high tackiness to aluminum, polyethylene and PVC to ensure uniform and continuous material protection.

lifeTime™

Available exclusively from TFC, **lifeTime™** is a corrosion resistant protectant designed to form a barrier against moisture ingress and retard corrosion. A stable slightly tacky composition, **lifeTime™** is applied to the aluminum braid and underlying tape. It does not drip and retains its consistency through a wide range of temperatures. **lifeTime™** is used from the pole to the groundblock, is suitable for indoor use from the groundblock to the television set, and can solve problems related to remote dc powering such as interdiction.

The standard drop cable choice for many system operators, **lifeTime™** drop cable offers actual dollar saving benefits. Protecting against corrosion not only extends cable life, it also maintains performance. This means improved return on labor and material investment while minimizing maintenance costs as the system ages.

NEC

TFC manufactures **CATV** and **CATVR** drop cables that are NEC compliant. These cables are listed by Underwriter's Laboratories Ⓤ , (File #E86650) and meets the requirements of National Electric Code (NEC), Article 820, Community Antenna Television and Radio Distribution Systems.

In addition to requirements governing various installation methods and materials, the code sets forth different levels of fire, flame, or smoke performance for communication cables.

For more information, refer to Technical Note NEC #1044B.

BONDING

The bonded construction of drop cable begins with the center conductor to dielectric interface and continues from the dielectric to the tape.

A bonded center conductor serves as a guard against moisture ingress, defending against corrosion. In addition, the bonded dielectric, which prevents center conductor movement, facilitates connectorization by removing cleanly and easily. Finally, bonding of the dielectric to tape allows the overlapping tape to stay sealed during cable flexure, minimizing RF signal ingress/egress.

1 GHz BANDWIDTH

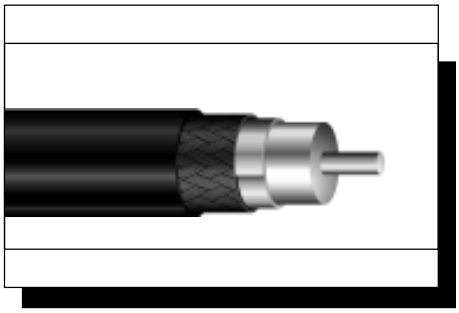
T10 drop cable is specified to have SRL sweep performance to 1 GHz. Specifying 1 GHz bandwidth for rebuilds, upgrades or new plant allows a system to handle future increasing capacity needs demanded by more channels, higher definition television and other emerging technologies.

TIMES FIBER COMMUNICATIONS, INC.®

DROP CABLE SERIES T10

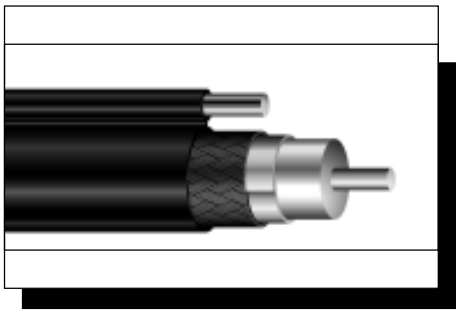
APPLICATION OF CONSTRUCTION TYPES

T10 Drop Cable Series offers a number of variations suited for different applications. Below is a listing which describes the recommended applications for each construction type. T10 Drop Cable Series is intended for applications from -40°F to +140°F and its attenuation remains stable from 0% to 100% relative humidity.



SINGLE

Single drop cable is well-suited for a wide range of general purpose indoor and outdoor applications.



MESSENGERED

Messengered cable is recommended for longer spans when higher strength is required to improve reliability in severe weather conditions. A galvanized steel messenger wire is integrally joined to the coaxial cable by an an overall extruded jacket and connecting web.

- POLE-TO-HOUSE

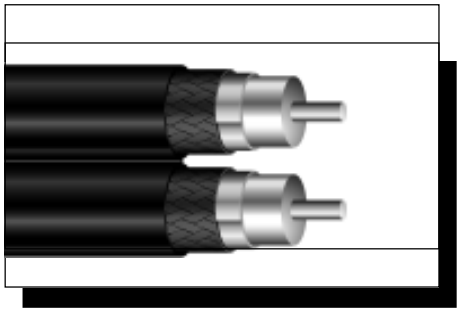
A high, flex-life messenger wire is utilized making it ideal for wrapping around span clamps and “P” hooks. The wire can be easily cut for installation purposes and has superior break strength compared to other versions available in similar sizes. Messenger sizes vary; refer to specifications.

- POLE-TO-POLE

An extra high strength 0.109 inch (2.77mm) wire with an 1800 pound (8007N) break strength is used for clearance control between power and telephone cables and for resistance to heavy loading such as ice, wind and other hazardous conditions.

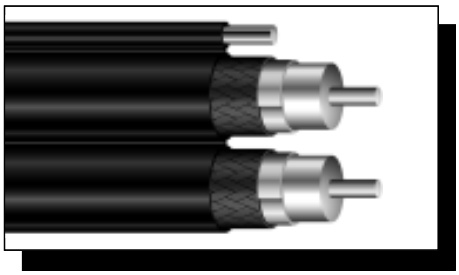
SIAMESE

Two single cables are joined by an overall extruded PVC jacket and connecting web for use in apartments and dual plant systems since it is more economical to install one siamese cable than two single cables.



SIAMESE MESSENGERED

A PVC jacketed, galvanized steel wire is integrally attached to the jacket of the siamese cable by an extruded web. The wire acts as a support for the cable in pole-to-house drops. Refer to MESSENGERED, Pole-to-House for an explanation of high flex-life wire.



T10 DROP CABLE SERIES

TIMES FIBER COMMUNICATIONS, INC.®

BRAID COVERAGE DESCRIPTIONS

T10 Drop Cable is available in a wide selection of braid coverages. These coverage distinctions are designed to offer a choice of protection for a variety of environmental conditions. The descriptions below detail braid construction and environmental applications.

STANDARD

- Outer Conductor:
  1. Sealed APA Laminated Tape
  2. Aluminum Braid
- Braid Coverage Available:
  59 Series - 53% and 67%
  6 Series - 60%
  7 Series - 60%
  11 Series - 53% and 60%
- Low-medium RF noise environment application

PREMIUM

- Outer Conductor:
  1. Sealed APA Laminated Tape
  2. Aluminum Braid
- Braid Coverage Available:
  59 Series - 95%
  6 Series - 90%
  7 Series - 76%
  11 Series - 60%
- Medium-moderately high RF noise environment application

TRISHIELD

- Outer Conductor:
  1. Sealed APA Laminated Tape
  2. Aluminum Braid
  3. APA Laminated Tape
- Braid Coverage Available:
  59 Series - 53% and 80%
  6 Series - 60% and 80%
  7 Series - 80%
  11 Series -60%
- High RF noise environment and two way applications.

QUADSHIELD

- Outer Conductor:
  1. Sealed APA Laminated Tape
  2. Inner Aluminum Braid
  3. APA Laminated Tape
  4. Outer Aluminum Braid
- Braid Coverage Available:
  59 Series - 53% Inner, 34% Outer
  6 Series - 60% Inner, 40% Outer
  7 Series - 60% Inner, 36% Outer
  11 Series - 53% Inner, 32% Outer
  11 Series - 60% Inner, 40% Outer
- Severe RF noise environment application, and two way applications.

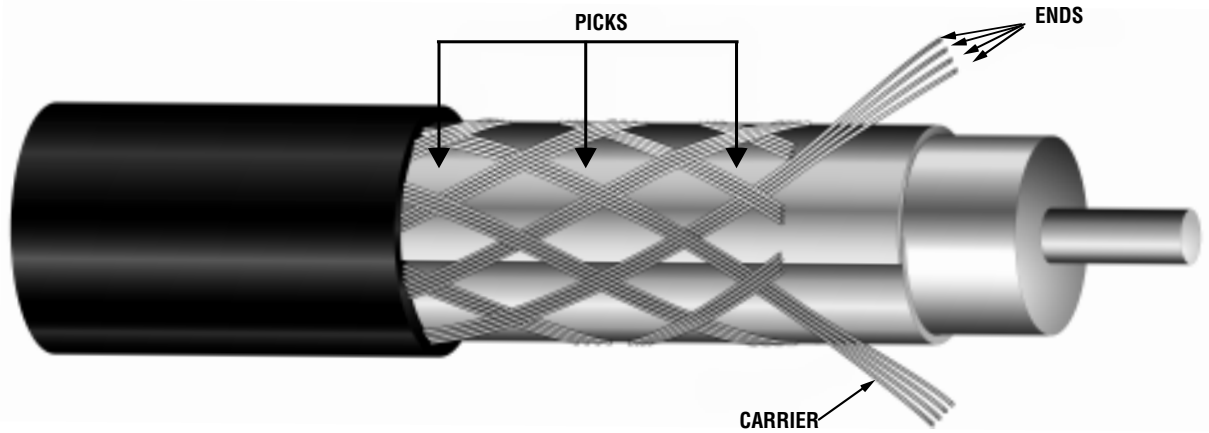
In addition to the 100% shielding coverage provided by internal shielding tapes, wire braid provides additional shielding coverage. The percentage of coverage that a wire braid contributes is a function of the diameters of the wire braid and the underlying structure, the number of carriers (groups of wire ends), the number of individual wires in each carrier and the picks per inch (the points of crossing of the carriers). The following formulae are applicable:

$$\text{Percent Coverage} = (2F - F^2) \times 100$$

Where: $F = NPd/\sin A$

$A = \tan^{-1} 2\pi (D + 2d) (P/C)$

And:
- C = Number of carriers (groups of ends)
- N = Number of ends (strands) per carrier
- P = Picks per inch (carrier crossing points)
- d = Diameter of individual wire strand (inch)
- D = Diameter of structure under the braid (inch)



T10 59 SERIES DROP CABLE

PART NUMBERS

CONSTRUCTION	BRAID COVERAGE STANDARD		PREMIUM	TRISHIELD		QUADSHIELD
Nominal Braid Coverage %	53	67	95	53	80	53 - 34
PVC Jacket (Regular)						
Single	02345 T5953-VB	02183 T5967-VB	02545 T5995-VB	02602 T59T53-VB	02607 T59T80-VB	02245 T59Q53/34-VB
Single (Colors)	02370 T5953-VC	02184 T5967-VC	02570 T5995-VC	02600 T59T53-VC	02605 T59T80-VC	02270 T59Q53/34-VC
Single Messengered	02347 T5953-VB-051M	02185 T5967-VB-051M	02547 T5995-VB-051M	02603 T59T53-VB-051M	02608 T59T80-VB-051M	02247 T59Q53/34-VB-051M
Siamese	02348 T5953SIAM-VB	02316 T5967SIAM-VB	02548 T5995SIAM-VB	— —	— —	02248 T59Q53/34SIAM-VB
Siamese (Colors)	02355 T5953SIAM-VC	02319 T5967SIAM-VC	— —	— —	— —	02255 T59Q53/34SIAM-VC
Siamese Messengered	02350 T5953SIAM-VB-072M	02317 T5967SIAM-VB-072M	— —	— —	— —	02250 T59Q53/34SIAM-VB-072M
PVC Jacket (Underground Floodant)						
Single Flooded	02374 T5953-FVB	02186 T5967-FVB	02574 T5995-FVB	02604 T59T53-FVB	02609 T59T80-FVB	02274 T59Q53/34-FVB
Siamese Flooded	02352 T5953SIAM-FVB	02309 T5967SIAM-FVB	— —	— —	— —	02252 T59Q53/34SIAM-FVB
Polyethylene Jacket (Underground Floodant)						
Single Flooded	02375 T5953-FEB	02315 T5967-FEB	02575 T5995-FEB	— —	— —	02215 T59Q53/34-FEB
PVC Jacket ((lifeTime™ Floodant)						
Single Flooded	32345 T5953-LTVB	32183 T5967-LTVB	32545 T5995-LTVB	32602 T59T53-LTVB	32607 T59T80-LTVB	32245 T59Q53/34-LTVB
Single Flooded Messengered	32347 T5953-LTVB-051M	32185 T5967-LTVB-051M	32547 T5995-LTVB-051M	32603 T59T53-LTVB-051M	32608 T59T80-LTVB-051M	32247 T59Q53/34-LTVB-051M
Siamese Flooded	32348 T5953SIAM-LTVB	32316 T5967SIAM-LTVB	32548 T5995SIAM-LTVB	— —	— —	32248 T59Q53/34SIAM-LTVB
Siamese Flooded Messengered	32350 T5953SIAM-LTVB-072M	32317 T5967SIAM-LTVB-072M	— —	— —	— —	32250 T59Q53/34SIAM-LTVB-072M
PVC Jacket, Flame Retardant – NEC Article 820 – "CATV(UL)"***						
Single	02345V T5953-VBV	02183V T5967-VBV	02545V T5995-VBV	02602V T59T53-VBV	02607V T59T80-VBV	02245V T59Q53/34-VBV
Single (Colors)	02370V T5953-VCV	02184V T5967-VCV	02570V T5995-VCV	02600V T59T53-VCV	02605V T59T80-VCV	02270V T59Q53/34-VCV
Siamese	02348V T5953SIAM-VBV	02316V T5967SIAM-VBV	02548V T5995SIAM-VBV	— —	— —	02248V T59Q53/34SIAM-VBV
Siamese (Colors)	02355V T5953SIAM-VCV	02319V T5967SIAM-VCV	— —	— —	— —	02255V T59Q53/34SIAM-VCV

TIMES FIBER COMMUNICATIONS, INC.®

59 SERIES DROP CABLE T10

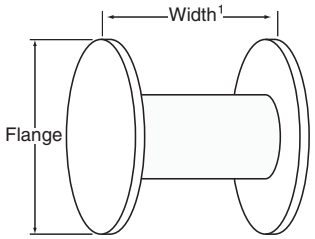
PART NUMBERS

CONSTRUCTION	BRAID COVERAGE STANDARD		PREMIUM	TRISHIELD		QUADSHIELD
Nominal Braid Coverage %	53	67	95	53	80	53 - 34
PVC Jacket, Flame Retardant w/**lifeTime™ – NEC Article 820 –** "CATV(UL)"***						
Single Flooded	32345V T5953-LTVBV	32183V T5967-LTVBV	32545V T5995-LTVBV	32602V T59T53-LTVBV	32607V T59T80-LTVBV	32245V T59Q53/34-LTVBV
Single Flooded (Colors)	— —	32184V T5967-LTVCV	— —	— —	— —	— —
Siamese Flooded	32348V T5953SIAM-LTVBV	32316V T5967SIAM-LTVBV	32548V T5995SIAM-LTVBV	— —	— —	32248V T59Q53/34SIAM-LTVBV
PVC Jacket, Flame Retardant **– NEC Article 820 –** "CATVR(UL)"***						
Single	— —	02183R T5967-VBR	— —	— —	— —	02245R T59Q53/34-VBR
Siamese	— —	02316R T5967SIAM-VBR	— —	— —	— —	— —
PVC Jacket, Flame Retardant w/**lifeTime™ – NEC Article 820 –** "CATVR(UL)"***						
Single Flooded	— —	32183R T5967-LTVBR	— —	— —	— —	32245R T59Q53/34-LTVBR
Siamese Flooded	— —	32316R T5967SIAM-LTVBR	— —	— —	— —	— —

*** CSA - CMH: Change "V" to "F
CSA - CMG: Change "V" to "M"
UL - CL2: Change "V" to "L"
UL - CM: Change "V" to "Y"

REEL SIZE

CONSTRUCTION TYPE	REEL SIZE (Flange x Width)	
Series 59	**inches**	**centimeters**
Single & Trishield	12x12	30x30
Single Quadshield	13x12	33x30
Single Messengered	16x12	41x30
Siamese	16x12	41x30
Siamese Trishield & Quadshield	16x14	41x36
Siamese Messengered	18x14	46x36
Siamese Messengered Quadshield	18x14	46x36



[1] Width = outside flange to outside flange

MAXIMUM ATTENUATION @ 68°F (20°C)

/Æªø´ª ß "ÿ¶	ºfi ªÆ Ô ªª"	ºfi ªÆ Ô ª"ªÆ
5	0.77	2.53
55	1.88	6.18
211	3.59	11.79
250	3.89	12.77
270	4.05	13.29
300	4.27	14.01
330	4.50	14.76
350	4.64	15.22
400	4.88	16.01
450	5.30	17.39
500	5.50	18.04
550	5.90	19.36
600	6.18	20.28
750	6.96	22.83
870	7.54	24.75
1000	8.09	26.54

Specifications subject to change without notice.

Attenuation increases with increasing temperature and decreases with decreasing temperature at the rate of 0.1%F/(0.18% /°C)

T10 59 SERIES DROP CABLE

TIMES FIBER COMMUNICATIONS, INC.®

TFC

PHYSICAL SPECIFICATIONS

NOMINAL DIMENSIONS	STANDARD		PREMIUM		TRISHIELD		QUADSHIELD	
Braid Coverage %	53 and 67		95		53 and 80		53 - 34	
	inches	(mm)	inches	(mm)	inches	(mm)	inches	(mm)
Conductor	0.0320	(0.81)	0.0320	(0.81)	0.0320	(0.81)	0.0320	(0.81)
Dielectric	0.144	(3.66)	0.144	(3.66)	0.144	(3.66)	0.144	(3.66)
Sealed APA Tape (1st Outer Conductor)	0.152	(3.86)	0.152	(3.86)	0.152	(3.86)	0.152	(3.86)
Aluminum Braid (2nd Outer Conductor)	0.176	(4.47)	0.176	(4.47)	0.176	(4.47)	0.176	(4.47)
Unsealed APA Tape (3rd Outer Conductor)	—	—	—	—	0.180	(4.57)	0.180	(4.57)
Aluminum Braid (4th Outer Conductor)	—	—	—	—	—	—	0.205	(5.21)
Jacket	0.240	(6.10)	0.240	(6.10)	0.244	(6.20)	0.265	(6.73)
Cable Width (Single)								
Messenger Diameter (Single)	0.051	(1.30)	0.051	(1.30)	0.051	(1.30)	0.051	(1.30)
Single Messengered Width	0.395	(10.0)	0.395	(10.0)	0.399	(10.1)	0.420	(10.7)
Siamese Width	0.525	(13.3)	0.525	(13.3)	—	—	0.575	(14.6)
Messenger Diameter (Siamese)	0.072	(1.83)	—	—	—	—	0.072	(1.83)
Siamese Messengered Width	0.702	(17.8)	—	—	—	—	0.752	(19.1)

Messenger Break Strength	**Size**		**Minimum**		**Maximum**	
	0.051 in	(1.30mm)	185 lb	(823 N)	245 lb	(1090 N)
	0.072 in	(1.83mm)	365 lb	(1624 N)	490 lb	(2180 N)

Cable Weight [lb./kft. (kg/km)]

Regular	53 and 67		95		53		80		53 - 34	
Single	23	(34)	24	(36)	22	(33)	24	(36)	27	(40)
Single Messengered	35	(52)	36	(54)	34	(51)	36	(54)	39	(58)
Siamese	46	(68)	48	(71)	—	—	—	—	54	(80)
Siamese Messengered	66	(98)	—	—	—	—	—	—	74	(110)
Underground										
Single Flooded	22	(33)	24	(36)	23	(34)	24	(36)	26	(39)
Siamese Flooded	45	(67)	—	—	—	—	—	—	52	(77)
lifeTime™										
Single Flooded	22	(33)	24	(36)	23	(34)	24	(36)	26	(39)
Single Flooded Messengered	34	(51)	36	(54)	35	(52)	36	(54)	38	(57)
Siamese Flooded	45	(67)	47	(70)	—	—	—	—	51	(76)
Siamese Flooded Messengered	65	(97)	—	—	—	—	—	—	72	(107)

ELECTRICAL SPECIFICATIONS

Nominal DC Resistance @ 68°F (20°C)	**Ohms/kft. (Ohms/ km)**											
Braid Coverage %	Standard				Premium		Trishield				Quadshield	
Conductors	53		67		95		53		80		53 - 34	
Center Conductor	48.2	(158)	48.2	(158)	48.2	(158)	48.2	(158)	48.2	(158)	48.2	(158)
Outer Conductor	12.1	(40)	10.0	(33)	6.52	(21)	8.43	(28)	6.70	(22)	6.52	(21)
Loop	60.3	(198)	58.2	(191)	54.7	(179)	56.6	(186)	54.9	(180)	54.7	(179)

Nominal Capacitance-all types	16.2 pF/ft (53.2 pF/m)
Impedance	75 ± 3 Ohms
Velocity of Propagation	85% nominal

Specifications subject to change without notice.

T10 6 SERIES DROP CABLE

TIMES FIBER COMMUNICATIONS, INC.®

TFC

PART NUMBERS

CONSTRUCTION	BRAID COVERAGE				
	STANDARD	PREMIUM	TRISHIELD		QUADSHIELD
Nominal Braid Coverage %	60	90	60	80	60 - 40
PVC Jacket (Regular)					
Single	02360 T660-VB	02560 T690-VB	02622 T6T60-VB	02627 T6T80-VB	02260 T6Q-VB
Single (Colors)	02391 T660-VC	02591 T690-VC	02620 T6T60-VC	02625 T6T80-VC	02291 T6Q-VC
Single Messengered	02364 T660-VB-051M	02564 T690-VB-051M	02623 T6T60-VB-051M	02628 T6T80-VB-051M	02264 T6Q-VB-051M
Siamese	02396 T660SIAM-VB	— —	— —	— —	02296 T6QSIAM-VB
Siamese (Colors)	02356 T660SIAM-VC	— —	— —	— —	02256 T6QSIAM-VC
Siamese Messengered	02384 T660SIAM-VB-072M	02584 T690SIAM-VB-072M	— —	— —	02284 T6QSIAM-VB-072M
PVC Jacket (Underground Floodant)					
Single Flooded	02386 T660-FVB	02586 T690-FVB	02624 T6T60-FVB	02629 T6T80-FVB	02286 T6Q-FVB
Siamese Flooded	02353 T660SIAM-FVB	02553 T690SIAM-FVB	— —	— —	02253 T6QSIAM-FVB
Polyethylene Jacket (Underground Floodant)					
Single Flooded	02321 T660-FEB	02521 T690-FEB	026H6 T6T60-FEB	026K0 T6T80-FEB	02221 T6Q-FEB
PVC Jacket (lifeTime™ Floodant)					
Single Flooded	32360 T660-LTVB	32560 T690-LTVB	32622 T6T60-LTVB	32627 T6T80-LTVB	32260 T6Q-LTVB
Single Flooded Messengered	32364 T660-LTVB-051M	32564 T690-LTVB-051M	32623 T6T60-LTVB-051M	32628 T6T80-LTVB-051M	32264 T6Q-LTVB-051M
Siamese Flooded	32396 T660SIAM-LTVB	— —	— —	— —	32296 T6QSIAM-LTVB
Siamese Flooded Messengered	32384 T660SIAM-LTVB-072M	32584 T690SIAM-LTVB-072M	— —	— —	32284 T6QSIAM-LTVB-072M
PVC Jacket , Flame Retardant – NEC Article 820 – "CATV(UL)"***					
Single	02360V T660-VBV	02560V T690-VBV	02622V T6T60-VBV	02627V T6T80-VBV	02260V T6Q-VBV
Single (Colors)	02391V T660-VCV	02591V T690-VCV	02620V T6T60-VCV	02625V T6T80-VCV	02291V T6Q-VCV
Siamese	02396V T660SIAM-VBV	02596V T690SIAM-VBV	— —	— —	02296V T6QSIAM-VBV
Siamese (Colors)	02356V T660SIAM-VCV	— —	— —	— —	02256V T6QSIAM-VCV
PVC Jacket , Flame Retardant w/lifeTime™ – NEC Article 820 – "CATV(UL)"***					
Single Flooded	32360V T660-LTVBV	32560V T690-LTVBV	32622V T6T60-LTVBV	32627V T6T80-LTVBV	32260V T6Q-LTVBV
Single Flooded (Colors)	32391V T660-LTVCV	32591V T690-LTVCV	32620V T6T60-LTVCV	32625V T6T80-LTVCV	32291V T6Q-LTVCV
Siamese Flooded	32396V T660SIAM-LTVBV	32596V T690SIAM-LTVBV	— —	— —	32296V T6QSIAM-LTVBV

*** CSA - CMH: Change "V" to "F"
CSA - CMG: Change "V" to "M"

UL CL2: Change "V" to "L"
UL CM: Change "V" to "Y"

Order From: MULTICOM®

Toll Free: 800-423-2594
www.multicominc.com
multicom@multicominc.com

TIMES FIBER COMMUNICATIONS, INC.®

6 SERIES DROP CABLE T10

PART NUMBERS

CONSTRUCTION	BRAID COVERAGE				
	STANDARD	PREMIUM	TRISHIELD		QUADSHIELD
Nominal Braid Coverage %	60	90	60	80	60 - 40
PVC Jacket , Flame Retardant – NEC Article 820 – "CATVR UL"***					
Single	02360R T660-VBR	— —	— —	— —	02260R T6Q-VBR
Single (Colors)	— —	— —	— —	— —	02291R T6Q-VCR
Siamese	02396R T660SIAM-VBR	— —	— —	— —	— —
PVC Jacket , Flame Retardant w/lifeTime™ – NEC Article 820 – "CATVR UL"***					
Single Flooded	— —	— —	— —	— —	32260R T6Q-LTVBR
Siamese Flooded	32396R T660SIAM-LTVBR	— —	— —	— —	— —

*** CSA - CMH: Change "V" to "F
CSA - CMG: Change "V" to "M"
UL - CL2: Change "V" to "L"
UL - CM: Change "V" to "Y"

REEL SIZE

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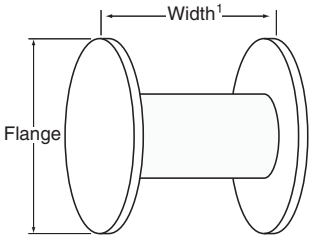
Single & Trishield	13x12	33x30
Single Quadshield	16x12	41x30
Single Messengered	16x12	41x30
Siamese	18x14	46x36
Siamese Trishield & Quadshield	18x14	46x36
Siamese Messengered	18x14	46x36
Siamese Messengered Quadshield	22x14	56x36



[1] Width = outside flange to outside flange

MAXIMUM ATTENUATION @ 68°F (20°C)

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5	0.57	1.87
55	1.50	4.94
211	2.87	9.43
250	3.12	10.22
270	3.24	10.63
300	3.43	11.25
330	3.61	11.84
350	3.72	12.20
400	4.00	13.12
450	4.28	14.04
500	4.51	14.80
550	4.76	15.62
600	4.98	16.34
750	5.62	18.44
870	6.09	19.99
1000	6.54	21.46

Specifications subject to change without notice.

Attenuation increases with increasing temperature and decreases with decreasing temperature at the rate of 0.1%Ƒ (0.18% / °C)

T10 6 SERIES DROP CABLE

TIMES FIBER COMMUNICATIONS, INC.®

PHYSICAL SPECIFICATIONS

“—” “fl‘ ‹ ”¤“Õ —“Õ	ÕÃfl“‹flŒ‹		–Œ¤” À”		ÃŒ Õÿ ¤‘‹		œÀfl‹Õÿ ¤‘‹	
fiÆø º ›±™ªÆø ª °	60		90		60 and 80		60 - 40	
	inches	(mm)	inches	(mm)	inches	(mm)	inches	(mm)
Conductor	0.0403	(1.02)	0.0403	(1.02)	0.0403	(1.02)	0.0403	(1.02)
Dielectric	0.180	(4.57)	0.180	(4.57)	0.180	(4.57)	0.180	(4.57)
Sealed APA Tape (1st Outer Conductor)	0.188	(4.78)	0.188	(4.78)	0.188	(4.78)	0.188	(4.78)
Aluminum Braid (2nd Outer Conductor)	0.212	(5.38)	0.212	(5.38)	0.212	(5.38)	0.212	(5.38)
Unsealed APA Tape (3rd Outer Conductor)	—	—	—	—	0.216	(5.49)	0.216	(5.49)
Aluminum Braid (4th Outer Conductor)	—	—	—	—	—	—	0.241	(6.12)
Jacket	0.273	(6.93)	0.273	(6.93)	0.278	(7.06)	0.297	(7.54)
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Messenger Diameter (Single)	0.051	(1.30)	0.051	(1.30)	0.051	(1.30)	0.051	(1.30)
Single Messengered Width	0.428	(10.9)	0.428	(10.9)	0.433	(11.0)	0.452	(11.5)
Siamese Width	0.591	(15.0)	0.591	(15.0)	—	—	0.639	(16.2)
Messenger Diameter (Siamese)	0.072	(1.83)	—	—	—	—	0.072	(1.83)
Siamese Messengered Width	0.768	(19.5)	—	—	—	—	0.816	(20.7)
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	0.051 in	(1.30 mm)	185 lb	(823 N)	245 lb	(1090 N)		
	0.072 in	(1.83 mm)	365 lb	(1624 N)	490 lb	(2180 N)		

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Œª ´¥øÆ	60		90		60		80		60 - 40	
Single	28	(42)	29	(43)	28	(42)	29	(43)	33	(49)
Single Messengered	40	(60)	41	(61)	40	(60)	41	(61)	45	(67)
Siamese	57	(85)	—	—	—	—	—	—	66	(98)
Siamese Messengered	77	(115)	—	—	—	—	—	—	86	(128)
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Single Flooded	27	(40)	29	(43)	29	(43)	30	(45)	31	(46)
Siamese Flooded	55	(82)	58	(86)	—	—	—	—	63	(94)
lifeTime™										
Single Flooded	27	(40)	29	(43)	29	(43)	30	(45)	31	(46)
Single Flooded Messengered	39	(58)	40	(60)	41	(61)	42	(63)	43	(64)
Siamese Flooded	55	(82)	—	—	—		—	—	63	(94)
Siamese Flooded Messengered	75	(112)	—	—	—	—	—	—	81	(121)

ELECTRICAL SPECIFICATIONS

Nominal DC Resistance @ 68°F (20°C)	**Ohms/kft. (Ohms/km)**									
Braid Coverage %	Standard		Premium		Trishield				Quadshield	
Conductors	60		90		60		80		60 - 40	
Center Conductor	30.4	(100)	30.4	(100)	30.4	(100)	30.4	(100)	30.4	(100)
Outer Conductor	9.22	(30)	5.63	(18)	6.48	(21)	5.52	(18)	4.88	(16)
Loop	39.6	(130)	36.0	(118)	36.9	(121)	35.9	(118)	35.3	(116)
Nominal Capacitance-all types	16.2 pF/ft (53.2 pF/m)									
Impedance	75 ± 3 Ohms									
Velocity of Propagation	85% nominal									

Specifications subject to change without notice.

T10 11 SERIES DROP CABLE

TIMES FIBER COMMUNICATIONS, INC.®

TFC

PART NUMBERS

	BRAID COVERAGE				
CONSTRUCTION	**STANDARD**	**PREMIUM**	**TRISHIELD**	**QUADSHIELD**	**QUADSHIELD**
Nominal Braid Coverage %	53	60	60	53 - 32	60 - 40
PVC Jacket (Regular)					
Single	02362 T1153-VB	023T2 T1160-VB	02642 T11T60-VB	02262 T11Q53/32-VB	022T2 T11Q-VB
Single (Colors)	02390 T1153-VC	023U2 T1160-VC	02640 T11T60-VC	— —	— —
Single Messengered (Pole-to-House)	02369 T1153-VB-083M	023V2 T1160-VB-083M	02643 T11T60-VB-083M	02269 T11Q53/32 -VB-083M	— —
Single Messengered (Pole-to-Pole)	— —	023VD T1160-VB-109M	— —	— —	022V7 T11Q-VB-109M
PVC Jacket (Underground Floodant)					
Single Flooded	02382 T1153-FVB	023W2 T1160-FVB	02644 T11T60-FVB	02282 T11Q53/32-FVB	— —
Single Flooded (colors)	02398 T1153-FVC	023W1 T1160-FVC	026W1 T11T60-FVC	02298 T11Q53/32-FVC	— —
Polyethylene Jacket					
Single Flooded	02381 T1153-FEB	023W4 T1160-FEB	026W4 T11T60-FEB	02281 T11Q53/32-FEB	022W4 T11Q-FEB
Single Flooded (Colors)	02135 T1153-FEC	023WA T1160-FEC	026WA T11T60-FEC	02297 T11Q53/32-FEC	022WA T11Q-FEC
Single Messengered (Pole-to-House)	02324 T1153-EB-083M	— —	— —	— —	— —
Single Messengered (Pole-to-Pole)	02366 T1153-EB-109M	023VE T1160-EB-109M	— —	02266 T11Q53/32-EB -109M	— —
PVC Jacket (lifeTime™ Floodant)					
Single Flooded	32362 T1153-LTVB	323T2 T1160-LTVB	32642 T11T60-LTVB	32262 T11Q53/32-LTVB	322T2 T11Q-LTVB
Single Flooded Messengered (Pole-to-House)	32369 T1153-LTVB-083M	323V2 T1160-LTVB -083M	32643 T11T60-LTVB -083M	32269 T11Q53/32-LTVB -083M	322T1 T11Q-LTVB -083M
Single Flooded Messengered (Pole-to-Pole)*	— —	— —	— —	— —	322V7 T11Q-LTVB-109M
PVC Jacket, Flame Retardant – NEC Article 820 – "CATV (UL)"***					
Single	02362V T1153-VBV	023T2V T1160-VBV	02642V T11T60-VBV	02262V T11Q53/32-VBV	— —
Single (Colors)	— —	— —	— —	02267V T11Q53/32-VCV	— —
PVC Jacket, Flame Retardant w/lifeTime™ – NEC Article 820 – "CATV (UL)"***					
Single	32362V T1153-LTVBV	— —	— —	32262V T11Q53/32-LTVBV	322T2V T11Q-LTVBV
Single (Colors)	—	—	—	—	—
PVC Jacket, Flame Retardant – NEC Article 820 – "CATVR (UL)"***					
Single	— —	023T2R T1160-VBR	— —	— —	022T2R T11Q-VBR
PVC Jacket, Flame Retardant w/lifeTime™ – NEC Article 820 – "CATVR (UL)"***					
Single	— —	323T2R T1160-LTVBR	— —	— —	322T2R T11Q-LTVBR

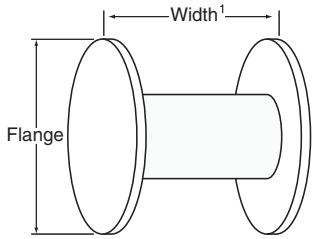
*** CSA - CMH: Change "V" to "F"
CSA - CMG: Change "V" to "M"

UL CL2: Change "V" to "L"
UL CM: Change "V" to "Y"

11 SERIES DROP CABLE T10

REEL SIZE

CONSTRUCTION TYPE	REEL SIZE (Flange x Width)	
Series 11	**inches**	**centimeters**
Single	18x14	46x36
Single Trishield	18x14	46x36
Single Quadshield	18x14	46x36
Single Messengered	22x14	56x36
Single Messengered Trishield	22x14	56x36
Single Messengered Quadshield	22x14	56x36



[1] Width = outside flange to outside flange

MAXIMUM ATTENUATION @ 68°F (20°C)

Frequency MHz	dB per 100 feet	dB per 100 meters
5	0.36	1.18
55	0.95	3.12
211	1.81	5.95
250	1.98	6.50
270	2.06	6.76
300	2.17	7.12
330	2.29	7.51
350	2.36	7.74
400	2.53	8.30
450	2.69	8.83
500	2.85	9.35
550	3.01	9.88
600	3.16	10.37
750	3.58	11.75
870	3.90	12.80
1000	4.23	13.88

Attenuation increases with increasing temperature and decreases with decreasing temperature at the rate of 0.1% / °F (0.18% / °C)

Specifications subject to change without notice.

T10 11 SERIES DROP CABLE

TIMES FIBER COMMUNICATIONS, INC.®

TFC

PHYSICAL SPECIFICATIONS

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fiÆø º ›±™ªÆø ª °	53		60		60		53 - 32		60 - 40	
	inches	(mm)	inches	(mm)	inches	(mm)	inches	(mm)	inches	(mm)
Conductor	0.0641	(1.63)	0.0641	(1.63)	0.0641	(1.63)	0.0641	(1.63)	0.0641	(1.63)
Dielectric	0.280	(7.11)	0.280	(7.11)	0.280	(7.11)	0.280	(7.11)	0.280	(7.11)
Sealed APA Tape (1st Outer Conductor)	0.288	(7.32)	0.288	(7.32)	0.288	(7.32)	0.288	(7.32)	0.288	(7.32)
Aluminum Braid (2nd Outer Conductor)	0.312	(7.92)	0.312	(7.92)	0.312	(7.92)	0.312	(7.92)	0.312	(7.92)
Unsealed APA Tape (3rd Outer Conductor)	—	—	—	—	0.316	(8.03)	0.316	(8.03)	0.316	(8.03)
Aluminum Braid (4th Outer Conductor)	—	—	—	—	—	—	0.341	(8.66)	0.341	(8.66)
Jacket	0.400	(10.2)	0.400	(10.2)	0.400	(10.2)	0.407	(10.3)	0.407	(10.3)
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Messenger Diameter (Pole-to-House)	0.083	(2.11)	0.083	(2.11)	0.083	(2.11)	0.083	(2.11)	0.083	(2.11)
Messenger Diameter (Pole-to-Pole)	0.109	(2.77)	0.109	(2.77)	0.109	(2.77)	0.109	(2.77)	0.109	(2.77)
Single Messengered (Pole-to-House)	0.608	(15.4)	0.608	(15.4)	0.608	(15.4)	0.615	(15.6)	0.615	(15.6)
Single Messengered (Pole-to-Pole)*	0.624	(15.9)	0.624	(15.9)	0.624	(15.9)	0.631	(16.0)	0.631	(16.0)
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	0.083 in (2.11 mm)		460 lb (2046 N)		622 lb (2767 N)					
	0.109 in (2.77 mm)		1800 lb (8007 N)		2190 lb (9742 N)					
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Single	58	(86)	58	(86)	56	(83)	58	(86)	58	(86)
Single Messengered (Pole-to-House)	86	(128)	86	(128)	84	(125)	83	(124)	—	—
Single Messengered (Pole-to-Pole)	—	—	100	(149)	—	—	—	—	—	—
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Single	—	—	48	(71)	—	—	—	—	—	—
Single Messengered (Pole-to-House)	72	(107)	—	—	—	—	—	—	—	—
Single Messengered (Pole-to-Pole)	86	(128)	86	(128)	—	—	87	(129)	100	(149)
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Single Flooded (PVC)	57	(85)	57	(85)	58	(86)	56	(83)	—	—
Single Flooded (PE)	47	(70)	48	(71)	49	(73)	48	(71)	49	(73)
lifeTime™										
Single Flooded	57	(85)	57	(85)	58	(86)	56	(83)	57	(85)
Single Flooded Messengered (Pole-to-House)	82	(122)	83	(124)	83	(124)	81	(121)	82	(122)
Single Flooded Messengered (Pole-to-Pole)	—	—	—	—	—	—	98	(146)	—	—

ELECTRICAL SPECIFICATIONS

Nominal DC Resistance @ 68°F (20°C)	**Ohms/kft. (Ohms/km)**									
Braid Coverage %	Standard		Premium		Trishield		Quadshield		Quadshield	
Conductors	53		60		60		53 - 32		60 - 40	
Center Conductor	12.1	(40)	12.1	(40)	12.1	(40)	12.1	(40)	12.1	(40)
Outer Conductor	7.22	(24)	6.48	(21)	4.55	(15)	3.99	(13)	3.55	(12)
Loop	19.3	(64)	18.6	(61)	16.7	(55)	16.1	(53)	15.7	(52)
Nominal Capacitance-all types	16.2 pF/ft (53.2 pF/m)									
Impedance	75 ± 3 Ohms									
Velocity of Propagation	85% nominal									

Specifications subject to change without notice.

Order From: MULTICOM®

Toll Free: 800-423-2594
www.multicominc.com
multicom@multicominc.com

T10 DROP CABLE ATTENUATION

ATTENUATION SUMMARY (maximum) @68°F (20C)

Frequency	59 Series		6 Series		7 Series		11 Series	
MHZ	dB/100 feet	dB/100 meters	dB/100 feet	dB/100 meters	dB/100 feet	dB/100 meters	dB/100 feet	dB/100 meters
5	0.77	2.53	0.57	1.87	0.56	1.84	0.36	1.18
55	1.88	6.18	1.50	4.94	1.22	4.00	0.95	3.12
211	3.59	11.79	2.87	9.43	2.29	7.53	1.81	5.95
250	3.89	12.77	3.12	10.22	2.49	8.17	1.98	6.50
270	4.05	13.29	3.24	10.63	2.59	8.50	2.06	6.76
300	4.27	14.01	3.43	11.25	2.74	8.99	2.17	7.12
330	4.50	14.76	3.61	11.84	2.89	9.47	2.29	7.51
350	4.64	15.22	3.72	12.20	2.98	9.78	2.36	7.74
400	4.88	16.01	4.00	13.12	3.20	10.50	2.53	8.30
450	5.30	17.39	4.28	14.04	3.41	11.19	2.69	8.83
500	5.50	18.04	4.51	14.80	3.61	11.84	2.85	9.35
550	5.90	19.36	4.76	15.62	3.80	12.47	3.01	9.88
600	6.18	20.28	4.98	16.34	3.99	13.09	3.16	10.37
750	6.96	22.83	5.62	18.44	4.50	14.76	3.58	11.75
870	7.54	24.75	6.09	19.99	4.87	15.99	3.90	12.80
1000	8.09	26.54	6.54	21.46	5.25	17.22	4.23	13.88

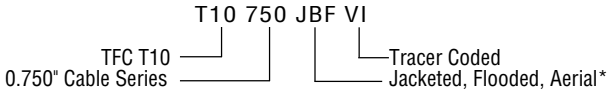
Attenuation increases with increasing temperature and decreases with decreasing temperature at the rate of 0.1% / °F (0.18% / °C)

Specifications subject to change without notice.

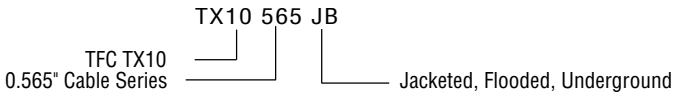
SEMIFLEX CABLE DESCRIPTION LEGEND

T10 or TX10	1	2
	1- Cable Series	**2- Jacket Configuration**
	412 - 0.412" Cable Series	" " - Unjacketed
	500 - 0.500" Cable Series	VI - Unjacketed, Tracer Coded
	565 - 0.565" Cable Series	J - Jacketed
	625 - 0.625" Cable Series	JX - Jacketed, Extra Thick Jacket
	700 - 0.703" Cable Series	JXVI - Jacketed, Extra Thick Jacket, Tracer Coded
	750 - 0.750" Cable Series	JVI - Jacketed, Tracer Coded
	840 - 0.840" Cable Series	MS - Jacketed, Messengered
	875 - 0.875" Cable Series	JB - Jacketed, Flooded - Underground
	1000 - 1.000" Cable Series	JBX - Jacketed, Flooded - Underground, Extra Thick Jacket
	1160 - 1.160" Cable Series	JBXVI - Jacketed, Flooded - Underground, Extra Thick Jacket, Tracer Coded
		JBVI - Jacketed, Flooded - Underground, Tracer Coded
		JBF - Jacketed, Flooded - Aerial*
		JBFVI - Jacketed, Flooded - Aerial*, Tracer Coded
		JBA - Jacketed, Armored
		JBAVI - Jacketed, Armored, Tracer Coded
		V - NEC - Article 820, CATV (UL) Listed, Unjacketed
		SC - Solid Copper Inner Conductor

Example: MI 24714 Part Number T10750JBFVI



MI 25502 Part Number TX10565JB



* Aerial Non-dripping flooding compound

TIMES FIBER COMMUNICATIONS, INC.®

TFC SEMIFLEX CABLE SERIES T10-TX10

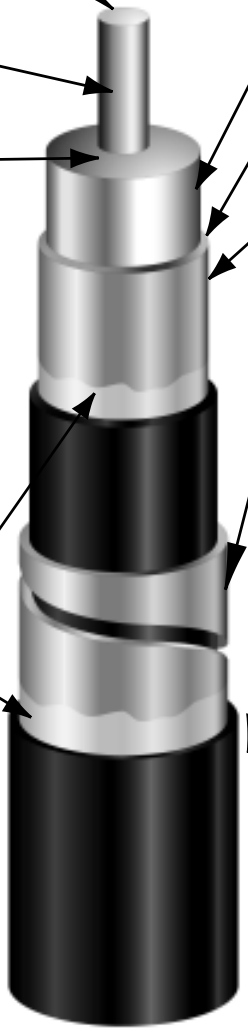
DETAILS OF CONSTRUCTION AND MATERIAL

CENTER CONDUCTOR
Copper-clad aluminum or solid copper

CONDUCTOR COATING
Proprietary polymer adhesive coating to provide moisture blocking, bonding the dielectric and enhancing foam structure stability.

DIELECTRIC
Foamed polyethylene produced by gas injection in combination with proprietary nucleating agents and enhanced dimensional uniformity to meet 1 GHz requirements. Federal specifications LP-390 and ASTM D-1248 are applicable to the polyethylene prior to the foaming.

FLOODING COMPOUNDS
- **SELF-HEALING**
  Cold flowing, low molecular weight flooding compound for self-healing of jacket damage. Intended for underground installations.
- **NON-FLOWING**
  Intended for aerial applications, non-dripping flooding compound.



DIELECTRIC ADHESIVE COATING
Proprietary polymer adhesive coating to bond core to outer conductor for improved handling and strength characteristics in cold weather.

OUTER CONDUCTOR
Seamless high purity electrical grade aluminum tube. (ASTM B-221).

JACKET ADHESIVE
Proprietary non-residue polymer adhesive (Not used on cables with flooding compounds).

ARMOR
A 0.010 inch thick steel tape per SAE/AISI 1010 for steel.

JACKET*
Abrasion resistant, low coefficient of friction medium density black polyethylene (Federal Specification LP-390 and ASTM D-1248 jacketing material).

* Sequential footage marking on outer jacket available upon request. Standard on underground, flooded cables.

Extra thick jacket is also available.

Not Shown:

MESSENGER
- T10 Semiflex: Galvanized 0.109 inch (2.77mm) solid steel wire (ASTM A-326), galvanized 0.188 inch (4.78mm) or 0.250 inch (6.35 mm) stranded steel wire (ASTM A-475).
- TX10 Semiflex: Galvanized 0.188 inch (4.78mm) or 0.250 inch (6.35 mm) stranded wire (ASTM A-475).

Pictured: T10 Semiflex Cable, Armored, with flooding compound

T10-TX10 SEMIFLEX CABLE SERIES

TIMES FIBER COMMUNICATIONS, INC.®

FEATURES AND BENEFITS

The T10 and TX10 Semiflex Cable Series offer a number of product features which enhance product performance and system operation.

BEND RADIUS

Both T10 and TX10 cables exhibit reduced bend radii to easily accommodate vault and pedestal placement. Refer to cable series data sheets for minimum bend radius specification.

BONDING

The bonded construction of semiflex cable begins at the center conductor to dielectric interface. Bonding serves as corrosion protection resulting from moisture ingress and facilitates stripping of the dielectric without leaving a harmful residue. Continuing from the dielectric to the outer conductor, controlled bonding provides adhesion strength to -40˚ C, drastically reducing center conductor pull-outs due to extreme temperature changes. In addition, bonding improves handling and facilitates the use of standard connectors. Further bonding of the outer conductor to jacket prevents concealment of aluminum sheath damage, identifying problems before the cable is installed.

T10 and TX10 semiflex cables' unique bonded construction allows all components to operate together as a single unit. A fully bonded composite construction offers the benefits of increased pull strength and resistance to possible sidewall pressure damage during installation. Triple bonding also solves the instances of connector pull-outs, further reducing cable service problems after installaton.

FLOODING COMPOUND

Flooding compounds come in a cold flowing, self-healing form for underground installations and a non-dripping aerial application form. Flooding compounds are used as an additional layer of corrosion protection.

Where greater protection is required, Times offers an armored construction. A flooded steel tape and jacket are layered over the standard flooded jacketed cable, increasing mechanical strength necessary for rodent protection and rocky soil.

1 GHz BANDWIDTH

T10 and TX10 are the only cables which are specified to consistently sweep to 1 GHz. Specifying 1 GHz bandwidth for rebuilds, upgrades or new plant allows a system to handle future increasing capacity needs demanded by more channels, higher definition television and other emerging technologies.

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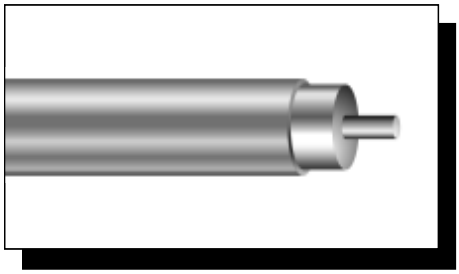
TFC SEMIFLEX CABLE SERIES T10-TX10

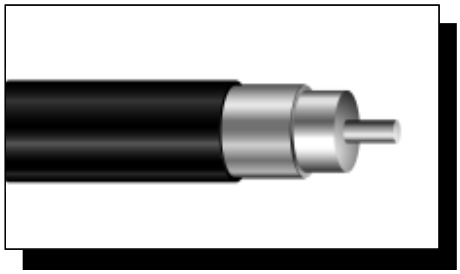
UNJACKETED

Application: Recommended for aerial installations in a non-corrosive environment, unjacketed semiflex cable features bonding of the center conductor to the dielectric and dielectric to the outer conductor. This bonding prevents moisture ingress and facilitates connectorization since it leaves no harmful residue.



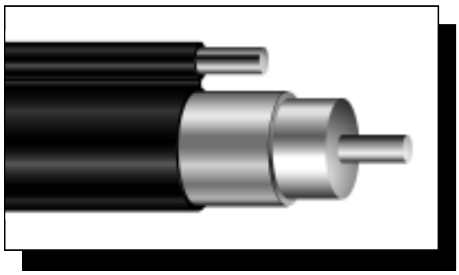
JACKETED

Application: For aerial applications in urban and coastal environments, Jacketed semiflex cable is recommended where highly corrosive conditions may exist. This cable features a triple bonding of the center conductor to the dielectric, dielectric to the outer conductor and outer conductor to the jacket and is designed to withstand more abrasion and mechanical abuse than an unjacketed version. With an extra thick jacket, this cable will withstand more abrasion and mechanical abuse than the standard jacketed burial cable.



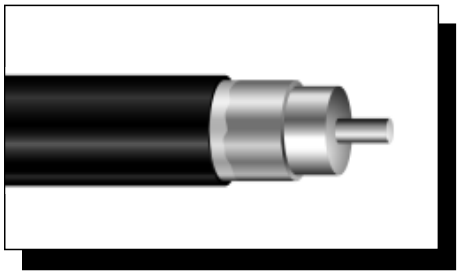
MESSENGERED

Application: Messengered semiflex cable is recommended for aerial feeder installations where strand installation is not practical. T10412 and T10500 semiflex cable is designed with a strong, integral, galvanized solid steel wire which supports the cable in aerial installations. TX10625 and TX10565 semiflex cable features a jacketed galvanized stranded steel wire which also acts as a support, relieving the cable from undue tension. Resting ladders on messengered cable is not recommended.



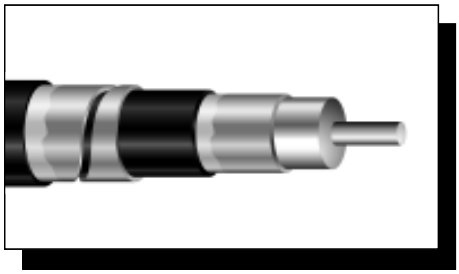
JACKETED BURIAL

Application: Jacketed Burial semiflex cable is recommended for underground applications in conduit or direct burial installations. This version features a cold flowing, self-healing flooding compound for underground applications, providing an additional layer of corrosion protection. For aerial applications, non-dripping flooding compound is used which also serves as an additional layer of corrosion protection.



ARMORED

Application: Where cable is exposed to extensive mechanical abuse and rodent attack, armored semiflex cable is recommended. Used for direct burial applications, Armored semiflex cable features a flooded steel tape and jacket which are layered over the standard flooded jacketed cable to increase mechanical strength.



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T10 500 SERIES SEMIFLEX CABLE

TIMES FIBER COMMUNICATIONS, INC.®

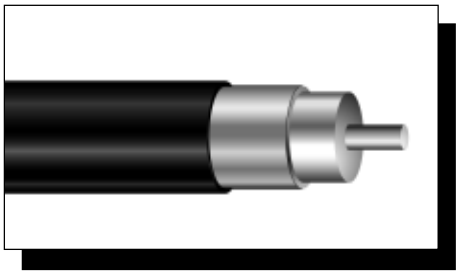
TFC

PART NUMBERS

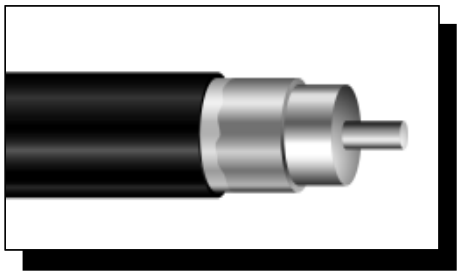
CONSTRUCTION	CENTER CONDUCTOR Copper-Clad Aluminum	
	Part Number	MI Number
Unjacketed	T10500	24500
Unjacketed, Tracer Coded	T10500VI	24510
Jacketed	T10500J	24501
Jacketed, Extra Thick Jacket	T10500JX	24506
Jacketed, Extra Thick Jacket, Tracer Coded	T10500JXVI	24516
Jacketed, Tracer Coded	T10500JVI	24511
Jacketed Messengered	T10500MS	24505
Jacketed Flooded, Underground	T10500JB	24502
Jacketed Flooded, Underground, Extra Thick Jacket	T10500JBX	24507
Jacketed Flooded, Underground, Extra Thick Jacket, Tracer Coded	T10500JBXVI	24517
Jacketed Flooded, Underground, Tracer Coded	T10500JBVI	24512
Jacketed Flooded, Aerial*	T10500JBF	24504
Jacketed Flooded, Aerial,* Tracer Coded	T10500JBFVI	24514
Jacketed Armored	T10500JBA	24503
Jacketed Armored, Tracer Coded	T10500JBAVI	24513
NEC - Article 820, CATV (UL) Listed, Unjacketed	T10500V	24500V

*Used for aerial applications due to non-flowing, non-dripping compound.

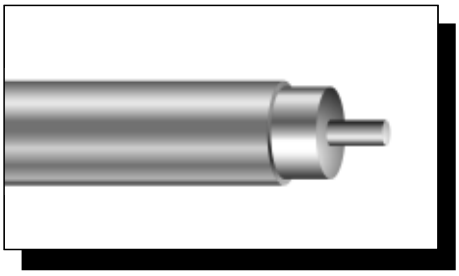
Note: Standard colored tracer stripes are red, yellow, green, blue, white, and slate. For other color combinations, please contact a customer service representative or your area sales representative.



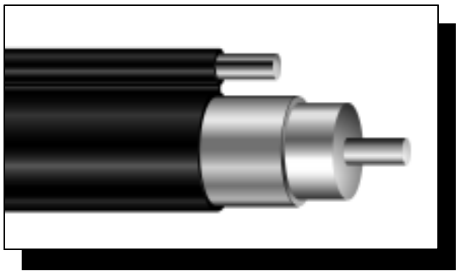
Jacketed



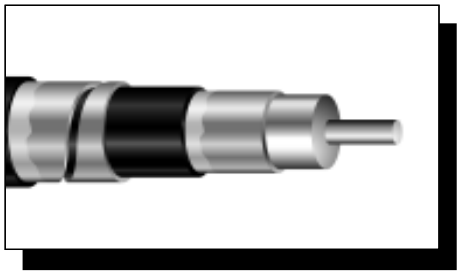
Jacketed Burial



Unjacketed



Messengered



Armored

TIMES FIBER COMMUNICATIONS, INC.®

500 SERIES SEMIFLEX CABLE T10

PHYSICAL SPECIFICATIONS

NOMINAL DIMENSIONS	UNJACKETED*		JACKETED		EXTRA THICK JACKET		MESSENGERED		JACKETED BURIAL		EXTRA THICK JACKETED BURIAL		ARMORED	
	inches	(mm)	inches	(mm)	inches	(mm)	inches	(mm)	inches	(mm)	inches	(mm)	inches	(mm)
Conductor	0.109	(2.77)	0.109	(2.77)	0.109	(2.77)	0.109	(2.77)	0.109	(2.77)	0.109	(2.77)	0.109	(2.77)
Dielectric	0.450	(11.4)	0.450	(11.4)	0.450	(11.4)	0.450	(11.4)	0.450	(11.4)	0.450	(11.4)	0.450	(11.4)
Outer Conductor Thickness	0.025	(0.64)	0.025	(0.64)	0.025	(0.64)	0.025	(0.64)	0.025	(0.64)	0.025	(0.64)	0.025	(0.64)
Outer Conductor Diameter	0.500	(12.7)	0.500	(12.7)	0.500	(12.7)	0.500	(12.7)	0.500	(12.7)	0.500	(12.7)	0.500	(12.7)
First Jacket	—	—	0.560	(14.2)	0.630	(16.0)	0.580	(14.7)	0.570	(14.5)	0.640	(16.3)	0.570	(14.5)
Messenger	—	—	—	—	—	—	0.109	(2.77)	—	—	—	—	—	—
Armor	—	—	—	—	—	—	—	—	—	—	—	—	0.590	(15.0)
Second Jacket	—	—	—	—	—	—	—	—	—	—	—	—	0.690	(17.5)
Nominal Weight (lb/1000 ft) (kg/km)	78	(116)	99	(147)	126	(188)	154	(229)	103	(153)	130	(193)	199	(296)
Nominal Weight (per reel) lb (kg)	269	(122)	319	(145)	409	(186)	479	(217)	328	(149)	419	(190)	588	(267)
Nominal Length (per reel) feet (m)	2450	(747)	2450	(747)	2450	(747)	2450	(747)	2450	(747)	2450	(747)	2450	(747)
Maximum Pull Force lbf (N)	300	(1334)	300	(1334)	300	(1334)	900	(4003)	300	(1334)	300	(1334)	300	(1334)
Minimum Bend Radius in (mm)	4.0	(102)	3.5	(89)	3.5	(89)	4.0	(102)	4.0	(102)	4.0	(102)	9.7	(246)
Messenger Break Strength lbf (N)	—	—	—	—	—	—	1800	(8007)	—	—	—	—	—	—
Reel Size (inches) (Flange x Width)[1]	36 x 22		36 x 22		42 x 22		42 x 22		36 x 22		42 x 22		42 x 22	
Reel Size (centimeters) (Flange x Width)[1]	91 x 56		91 x 56		107 x 56		107 x 56		91 x 56		107 x 56		107 x 56	

* All T10 Unjacketed Cable is available rated per **NEC Article 820 - CATV** (UL).

[1] Width = outside flange to outside flange

ELECTRICAL SPECIFICATIONS

Nominal DC Resistance @ 68°F (20°C)	**Ohms per 1000**	
Copper-Clad Aluminum Center Conductor	**feet**	**meters**
Center Conductor	1.34	4.40
Outer Conductor	0.36	1.18
Loop	1.70	5.58
Nominal Capacitance	15.6 pF/ft	(51.2 pF/m)
Impedance	75 ± 2 Ohms	
Velocity of Propagation	87% nominal	

MAXIMUM ATTENUATION @ 68°F (20°C)

Frequency MHz	dB per 100 feet	dB per 100 meters
5	0.16	0.52
55	0.55	1.80
211	1.08	3.55
250	1.19	3.92
270	1.24	4.07
300	1.31	4.30
330	1.38	4.54
350	1.43	4.69
400	1.53	5.02
450	1.63	5.35
500	1.73	5.68
550	1.82	5.97
600	1.91	6.27
750	2.16	7.09
870	2.35	7.69
1000	2.53	8.30

Attenuation increases with increasing temperature and decreases with decreasing temperature at the rate of 0.1% / °F (0.18% / °C)

Specifications subject to change without notice.

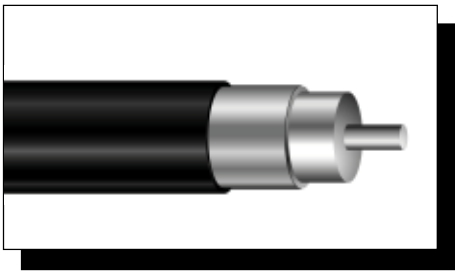
T10 625 SERIES SEMIFLEX CABLE TFC

PART NUMBERS

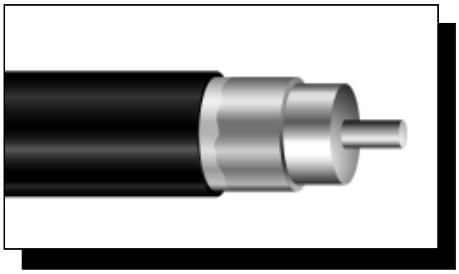
CONSTRUCTION	CENTER CONDUCTOR Copper-Clad Aluminum	
	Part Number	MI Number
Unjacketed	T10625	24600
Unjacketed, Tracer Coded	T10625VI	24610
Jacketed	T10625J	24601
Jacketed, Extra Thick Jacket	T10625JX	24606
Jacketed, Extra Thick Jacket, Tracer Coded	T10625JXVI	24616
Jacketed, Tracer Coded	T10625JVI	24611
Jacketed Messengered	T10625MS	24605
Jacketed Flooded, Underground	T10625JB	24602
Jacketed Flooded, Underground, Extra Thick Jacket	T10625JBX	24607
Jacketed Flooded, Underground, Extra Thick Jacket, Tracer Coded	T10625JBXVI	24617
Jacketed Flooded, Underground, Tracer Coded	T10625JBVI	24612
Jacketed Flooded, Aerial*	T10625JBF	24604
Jacketed Flooded, Aerial,*Tracer Coded	T10625JBFVI	24614
Jacketed Armored	T10625JBA	24603
Jacketed Armored, Tracer Coded	T10625JBAVI	24613
NEC - Article 820, CATV (UL) Listed, Unjacketed	T10625V	24600V

*Used for aerial applications due to non-flowing, non-dripping compound.

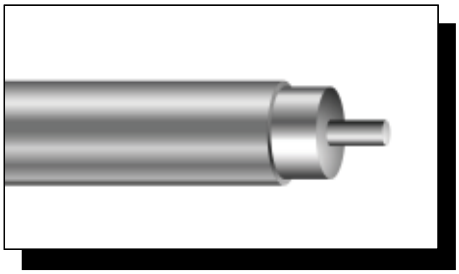
Note Standard colored tracer stripes are red, yellow, green, blue, white, and slate. For other color combinations, please contact a customer service representative or your area sales representative.



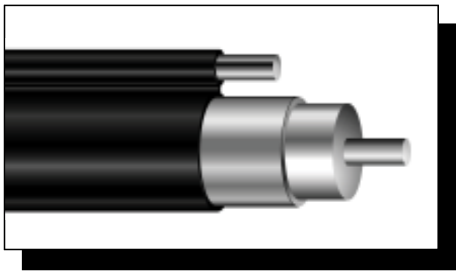
Jacketed



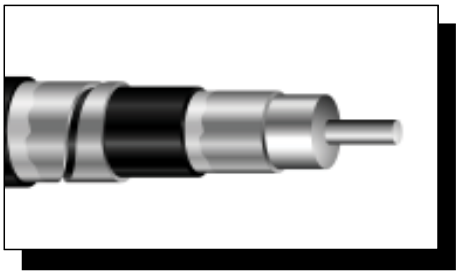
Jacketed Burial



Unjacketed



Messengered



Armored

TIMES FIBER COMMUNICATIONS, INC.®

625 SERIES SEMIFLEX CABLE T10

PHYSICAL SPECIFICATIONS

NOMINAL DIMENSIONS	UNJACKETED*		JACKETED		EXTRA THICK JACKET		MESSENGERED		JACKETED BURIAL		EXTRA THICK JACKETED BURIAL		ARMORED	
	inches	(mm)	inches	(mm)	inches	(mm)	inches	(mm)	inches	(mm)	inches	(mm)	inches	(mm)
Conductor	0.136	(3.45)	0.136	(3.45)	0.136	(3.45)	0.136	(3.45)	0.136	(3.45)	0.136	(3.45)	0.136	(3.45)
Dielectric	0.563	(14.3)	0.563	(14.3)	0.563	(14.3)	0.563	(14.3)	0.563	(14.3)	0.563	(14.3)	0.563	(14.3)
Outer Conductor Thickness	0.031	(0.79)	0.031	(0.79)	0.031	(0.79)	0.031	(0.79)	0.031	(0.79)	0.031	(0.79)	0.031	(0.79)
Outer Conductor Diameter	0.625	(15.9)	0.625	(15.9)	0.625	(15.9)	0.625	(15.9)	0.625	(15.9)	0.625	(15.9)	0.625	(15.9)
First Jacket	—	—	0.685	(17.4)	0.755	(19.2)	0.705	(17.9)	0.695	(17.7)	0.765	(19.4)	0.695	(17.7)
Messenger	—	—	—	—	—	—	0.188	(4.78)	—	—	—	—	—	—
Armor	—	—	—	—	—	—	—	—	—	—	—	—	0.715	(18.2)
Second Jacket	—	—	—	—	—	—	—	—	—	—	—	—	0.815	(20.7)
Nominal Weight (lb/1000 ft) (kg/km)	122	(182)	147	(219)	180	(268)	249	(371)	151	(225)	185	(275)	268	(399)
Nominal Weight (per reel) lb (kg)	399	(181)	461	(209)	587	(266)	758	(344)	472	(214)	599	(272)	803	(364)
Nominal Length (per reel) feet (m)	2450	(747)	2450	(747)	2450	(747)	2450	(747)	2450	(747)	2450	(747)	2450	(747)
Maximum Pull Force lbf (N)	475	(2113)	475	(2113)	475	(2113)	1995	(8874)	475	(2113)	475	(2113)	475	(2113)
Minimum Bend Radius in (mm)	5.0	(127)	4.5	(114)	4.5	(114)	5.0	(127)	5.0	(127)	5.0	(127)	11.4	(290)
Messenger Break Strength lbf (N)	—	—	—	—	—	—	3990	(17748)	—	—	—	—	—	—
Reel Size (inches) (Flange x Width)[1]	42 x 22		42 x 22		48 x 28		50 x 28		42 x 22		48 x 28		48 x 28	
Reel Size (cm) (Flange x Width)[1]	107 x 56		107 x 56		122 x 71		127 x 71		107 x 56		122 x 71		122 x 71	

* All T10 Unjacketed Cable is available rated per **NEC Article 820 - CATV** (UL)

[1] Width = outside flange to outside flange

ELECTRICAL SPECIFICATIONS

Nominal DC Resistance @ 68˚F (20°C)	**Ohms per 1000**	
Copper-Clad Aluminum Center Conductor	**feet**	**meters**
Center Conductor	0.86	2.82
Outer Conductor	0.23	0.75
Loop	1.09	3.58
Nominal Capacitance	15.6 pF/ft (51.2 pF/m)	
Impedance	75 ± 2 Ohms	
Velocity of Propagation	87% nominal	

MAXIMUM ATTENUATION @ 68°F (20°C)

Frequency MHz	dB per 100 feet	dB per 100 meters
5	0.13	0.43
55	0.45	1.46
211	0.89	2.92
250	0.98	3.22
270	1.02	3.35
300	1.08	3.54
330	1.14	3.75
350	1.18	3.87
400	1.27	4.17
450	1.35	4.43
500	1.43	4.69
550	1.51	4.95
600	1.58	5.18
750	1.79	5.87
870	1.95	6.40
1000	2.11	6.92

Attenuation increases with increasing temperature and decreases with decreasing temperature at the rate of 0.1% / °F (0.18% / °C)

Specifications subject to change without notice.

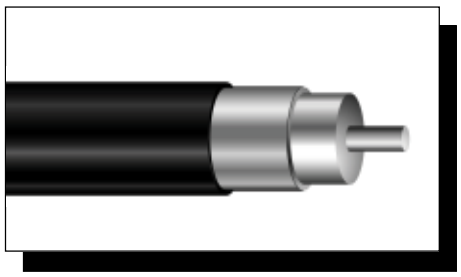
T10 750 SERIES SEMIFLEX CABLE FC

PART NUMBERS

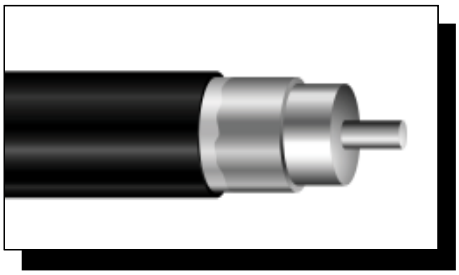
CONSTRUCTION	CENTER CONDUCTOR Copper-Clad Aluminum	
	Part Number	MI Number
Unjacketed	T10750	24700
Unjacketed, Tracer Coded	T10750VI	24710
Jacketed	T10750J	24701
Jacketed, Exta Thick Jacket	T10750JX	24706
Jacketed, Extra Thick Jacket, Tracer Coded	T10750JXVI	24716
Jacketed, Tracer Coded	T10750JVI	24711
Jacketed Messengered	T10750MS	24705
Jacketed Flooded, Underground	T10750JB	24702
Jacketed Flooded, Underground, Extra Thick Jacket	T10750JBX	24707
Jacketed Flooded, Underground, Extra Thick Jacket, Tracer Coded	T10750JBXVI	24717
Jacketed Flooded, Underground, Tracer Coded	T10750JBVI	24712
Jacketed Flooded, Aerial*	T10750JBF	24704
Jacketed Flooded, Aerial,* Tracer Coded	T10750JBFVI	24714
Jacketed Armored	T10750JBA	24703
Jacketed Armored, Tracer Coded	T10750JBAVI	24713
NEC - Article 820, CATV (UL) Listed, Unjacketed	T10750V	24700V

*Used for aerial applications due to non-flowing, non-dripping compound.

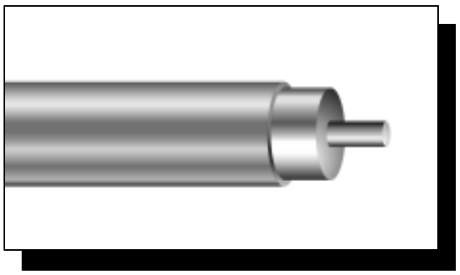
Note Standard colored tracer stripes are red, yellow, green, blue, white, and slate. For other color combinations, please contact a customer service representative or your area sales representative.



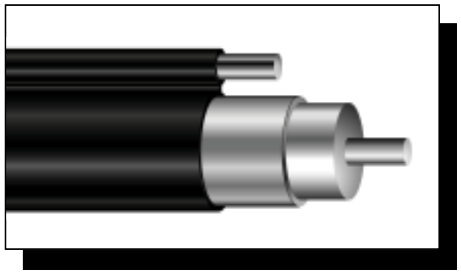
Jacketed



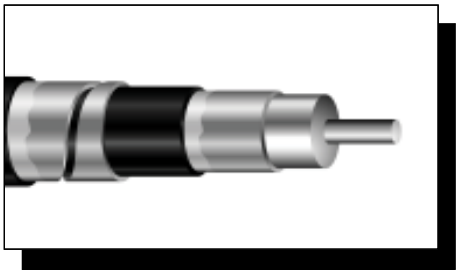
Jacketed Burial



Unjacketed



Messengered



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TIMES FIBER COMMUNICATIONS, INC.®

750 SERIES SEMIFLEX CABLE T10

PHYSICAL SPECIFICATIONS

NOMINAL DIMENSIONS	UNJACKETED*		JACKETED		EXTRA THICK JACKET		MESSENGERED		JACKETED BURIAL		EXTRA THICK JACKETED BURIAL		ARMORED	
	inches	(mm)	inches	(mm)	inches	(mm)	inches	(mm)	inches	(mm)	inches	(mm)	inches	(mm)
Conductor	0.166	(4.22)	0.166	(4.22)	0.166	(4.22)	0.166	(4.22)	0.166	(4.22)	0.166	(4.22)	0.166	(4.22)
Dielectric	0.678	(17.2)	0.678	(17.2)	0.678	(17.2)	0.678	(17.2)	0.678	(17.2)	0.678	(17.2)	0.678	(17.2)
Outer Conductor Thickness	0.036	(0.91)	0.036	(0.91)	0.036	(0.91)	0.036	(0.91)	0.036	(0.91)	0.036	(0.91)	0.036	(0.91)
Outer Conductor Diameter	0.750	(19.1)	0.750	(19.1)	0.750	(19.1)	0.750	(19.1)	0.750	(19.1)	0.750	(19.1)	0.750	(19.1)
First Jacket	—	—	0.820	(20.8)	0.880	(22.4)	0.850	(21.6)	0.830	(21.1)	0.890	(22.6)	0.830	(21.1)
Messenger	—	—	—	—	—	—	0.250	(6.35)	—	—	—	—	—	—
Armor	—	—	—	—	—	—	—	—	—	—	—	—	0.850	(21.6)
Second Jacket	—	—	—	—	—	—	—	—	—	—	—	—	0.950	(24.1)
Nominal Weight (lb/1000 ft) (kg/km)	173	(257)	208	(310)	241	(359)	380	(566)	213	(317)	247	(368)	351	(522)
Nominal Weight (per reel) lb (kg)	578	(262)	669	(303)	752	(341)	1255	(569)	682	(309)	766	(347)	1121	(508)
Nominal Length (per reel) feet (m)	2500	(762)	2500	(762)	2500	(762)	2500	(762)	2500	(762)	2500	(762)	2500	(762)
Maximum Pull Force lbf (N)	675	(3003)	675	(3003)	675	(3003)	3325	(14790)	675	(3003)	675	(3003)	675	(3003)
Minimum Bend Radius in (mm)	7.0	(178)	6.0	(152)	6.0	(152)	7.0	(178)	7.0	(178)	7.0	(178)	13.3	(338)
Messenger Break Strength lbf (N)	—	—	—	—	—	—	6650	(29581)	—	—	—	—	—	—
Reel Size (inches) (Flange x Width)[1]	48 x 28		50 x 28		50 x 28		63 x 30		50 x 28		50 x 28		57 x 28	
Reel Size (centimeters) (Flange x Width)[1]	122 x 71		127 x 71		127 x 71		160 x 76		127 x 71		127 x 71		145 x 71	

* All T10 Unjacketed Cable is available rated per **NEC Article 820 - CATV** (UL).

[1] Width = outside flange to outside flange

ELECTRICAL SPECIFICATIONS

Nominal DC Resistance @ 68˚F (20°C)	**Ohms per 1000**	
Copper-Clad Aluminum Center Conductor	**feet**	**meters**
Center Conductor	0.58	1.90
Outer Conductor	0.17	0.56
Loop	0.75	2.46
Nominal Capacitance	15.6 pF/ft (51.2 pF/m)	
Impedance	75 ± 2 Ohms	
Velocity of Propagation	87% nominal	

MAXIMUM ATTENUATION @ 68°F (20°C)

Frequency MHz	dB per 100 feet	dB per 100 meters
5	0.11	0.36
55	0.37	1.21
211	0.73	2.41
250	0.81	2.65
270	0.84	2.76
300	0.89	2.92
330	0.94	3.08
350	0.97	3.18
400	1.05	3.44
450	1.12	3.67
500	1.18	3.87
550	1.25	4.10
600	1.31	4.30
750	1.48	4.86
870	1.61	5.28
1000	1.74	5.71

Attenuation increases with increasing temperature and decreases with decreasing temperature at the rate of 0.1% / °F (0.18% / °C)

Specifications subject to change without notice.

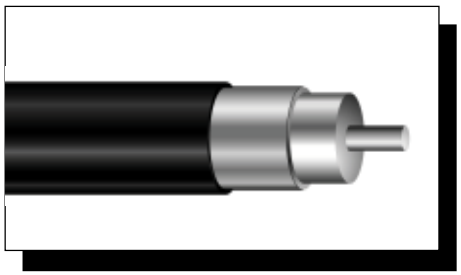
T10 875 SERIES SEMIFLEX CABLE TFC

PART NUMBERS

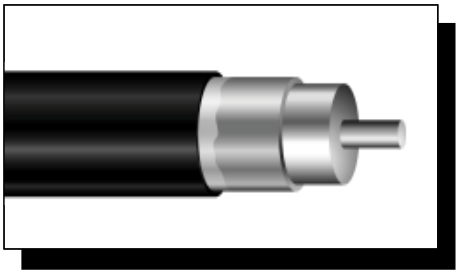
CONSTRUCTION	CENTER CONDUCTOR Copper-Clad Aluminum	
	Part Number	MI Number
Unjacketed	T10875	24800
Unjacketed, Tracer Coded	T10875VI	24810
Jacketed	T10875J	24801
Jacketed, Extra Thick Jacket	T10875JX	24806
Jacketed, Extra Thick Jacket, Tracer Coded	T10875JXVI	24816
Jacketed, Tracer Coded	T10875JVI	24811
Jacketed Messengered	T10875MS	24805
Jacketed Flooded, Underground	T10875JB	24802
Jacketed Flooded, Underground, Extra Thick Jacket	T10875JBX	24807
Jacketed Flooded, Underground, Extra Thick Jacket, Tracer Coded	T10875JBXVI	24817
Jacketed Flooded, Underground, Color Coded	T10875JBVI	24812
Jacketed Flooded, Aerial*	T10875JBF	24804
Jacketed Flooded, Aerial,* Tracer Coded	T10875JBFVI	24814
Jacketed Armored	T10875JBA	24803
Jacketed Armored, Tracer Coded	T10875JBAVI	24813
NEC - Article 820, CATV (UL) Listed, Unjacketed	T10875V	24800V

*Used for aerial applications due to non-flowing, non-dripping compound.

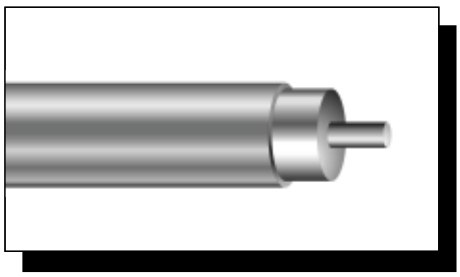
Note Standard colored tracer stripes are red, yellow, green, blue, white, and slate. For other color combinations, please contact a customer service representative or your area sales representative.



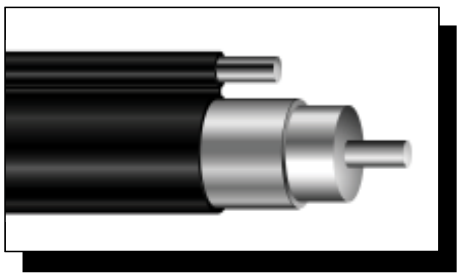
Jacketed



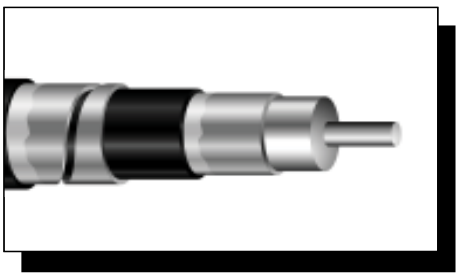
Jacketed Burial



Unjacketed



Messengered



Armored

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www.multicominc.com
multicom@multicominc.com

TIMES FIBER COMMUNICATIONS, INC.®

875 SERIES SEMIFLEX CABLE T10

PHYSICAL SPECIFICATIONS

NOMINAL DIMENSIONS	UNJACKETED*		JACKETED		EXTRA THICK JACKET		MESSENGERED		JACKETED BURIAL		EXTRA THICK JACKETED BURIAL		ARMORED	
	inches	(mm)	inches	(mm)	inches	(mm)	inches	(mm)	inches	(mm)	inches	(mm)	inches	(mm)
Conductor	0.194	(4.93)	0.194	(4.93)	0.194	(4.93)	0.194	(4.93)	0.194	(4.93)	0.194	(4.93)	0.194	(4.93)
Dielectric	0.797	(20.2)	0.797	(20.2)	0.797	(20.2)	0.797	(20.2)	0.797	(20.2)	0.797	(20.2)	0.797	(20.2)
Outer Conductor Thickness	0.039	(0.99)	0.039	(0.99)	0.039	(0.99)	0.039	(0.99)	0.039	(0.99)	0.039	(0.99)	0.039	(0.99)
Outer Conductor Diameter	0.875	(22.2)	0.875	(22.2)	0.875	(22.2)	0.875	(22.2)	0.875	(22.2)	0.875	(22.2)	0.875	(22.2)
First Jacket	—	—	0.945	(24.0)	1.005	(25.5)	0.975	(24.8)	0.955	(24.3)	1.015	(25.8)	0.955	(24.3)
Messenger	—	—	—	—	—	—	0.250	(6.35)	—	—	—	—	—	—
Armor	—	—	—	—	—	—			—	—	—	—	0.975	(24.8)
Second Jacket	—	—	—	—	—	—			—	—	—	—	1.075	(27.3)
Nominal Weight (lb/1000 ft) (kg/km)	227	(338)	268	(399)	306	(455)	442	(658)	274	(408)	312	(464)	432	(643)
Nominal Weight (per reel) lb (kg)	800	(363)	901	(409)	994	(451)	1569	(712)	916	(415)	1010	(458)	1364	(619)
Nominal Length (per reel) feet (m)	2450	(747)	2450	(747)	2450	(747)	2450	(747)	2450	(747)	2450	(747)	2450	(747)
Maximum Pull Force lbf (N)	875	(3892)	875	(3892)	875	(3892)	3325	(14790)	875	(3892)	875	(3892)	875	(3892)
Minimum Bend Radius in (mm)	8.0	(203)	7.0	(178)	7.0	(178)	8.0	(203)	8.0	(203)	8.0	(203)	15.0	(381)
Messenger Break Strength lbf (N)	—	—	—	—	—	—	6650	(29581)	—	—	—	—	—	—
Reel Size (inches) (Flange x Width)[1]	57 x 28		57 x 28		57 x 28		72 x 30		57 x 28		57 x 28		63 x 30	
Reel Size (centimeters) (Flange x Width)[1]	145 x 71		145 x 71		145 x 71		183 x 76		145 x 71		145 x 71		160 x 76	

* All T10 Unjacketed Cable is available rated per **NEC Article 820 - CATV** (UL).

[1] Width = outside flange to outside flange

ELECTRICAL SPECIFICATIONS

Nominal DC Resistance @ 68°F (20°C)	Ohms per 1000	
Copper-Clad Aluminum Center Conductor	**feet**	**meters**
Center Conductor	0.42	1.38
Outer Conductor	0.13	0.43
Loop	0.55	1.80
Nominal Capacitance	15.6 pF/ft (51.2 pF/m)	
Impedance	75 ± 2 Ohms	
Velocity of Propagation	87% nominal	

MAXIMUM ATTENUATION @ 68°F (20°C)

Frequency MHz	dB per 100 feet	dB per 100 meters
5	0.09	0.30
55	0.32	1.04
211	0.64	2.09
250	0.70	2.31
270	0.73	2.40
300	0.78	2.56
330	0.82	2.68
350	0.84	2.76
400	0.91	2.99
450	0.97	3.18
500	1.03	3.38
550	1.09	3.58
600	1.14	3.74
750	1.29	4.23
870	1.41	4.63
1000	1.53	5.02

Specifications subject to change without notice.

Attenuation increases with increasing temperature and decreases with decreasing temperature at the rate of 0.1% / °F (0.18% / °C)

T10 SEMIFLEX CABLE SERIES

TIMES FIBER COMMUNICATIONS, INC.®

TFC

ATTENUATION SUMMARY (maximum) @ 68°F (20°C)

Frequency	Series 412		Series 500		Series 625		Series 750		Series 875		Series 1000	
MHz	**dB/100 feet**	dB/100 meters	dB/100 feet	**dB/100 meters**	**dB/100 feet**	**dB/100 meters**	**dB/100 feet**	dB/100 meters	dB/100 feet	**dB/100 meters**	**dB/100 feet**	dB/100 meters
5	0.20	0.66	0.16	0.52	0.13	0.43	0.11	0.36	0.09	0.30	0.08	0.26
55	0.68	2.24	0.55	1.80	0.45	1.46	0.37	1.21	0.32	1.04	0.29	0.95
211	1.35	4.44	1.08	3.55	0.89	2.92	0.73	2.41	0.64	2.09	0.58	1.92
250	1.49	4.89	1.19	3.92	0.98	3.22	0.81	2.65	0.70	2.31	0.64	2.11
270	1.55	5.09	1.24	4.07	1.02	3.35	0.84	2.76	0.73	2.40	0.67	2.20
300	1.64	5.38	1.31	4.30	1.08	3.54	0.89	2.92	0.78	2.56	0.72	2.36
330	1.73	5.66	1.38	4.54	1.14	3.75	0.94	3.08	0.82	2.68	0.76	2.48
350	1.78	5.84	1.43	4.69	1.18	3.87	0.97	3.18	0.84	2.76	0.78	2.56
400	1.91	6.27	1.53	5.02	1.27	4.17	1.05	3.44	0.91	2.99	0.84	2.76
450	2.03	6.66	1.63	5.35	1.35	4.43	1.12	3.67	0.97	3.18	0.90	2.95
500	2.15	7.05	1.73	5.68	1.43	4.69	1.18	3.87	1.03	3.38	0.96	3.15
550	2.26	7.41	1.82	5.97	1.51	4.95	1.25	4.10	1.09	3.58	1.01	3.31
600	2.37	7.78	1.91	6.27	1.58	5.18	1.31	4.30	1.14	3.74	1.06	3.48
750	2.68	8.79	2.16	7.09	1.79	5.87	1.48	4.86	1.29	4.23	1.21	3.97
870	2.90	9.52	2.35	7.69	1.95	6.40	1.61	5.28	1.41	4.63	1.33	4.35
1000	3.13	10.27	2.53	8.30	2.11	6.92	1.74	5.71	1.53	5.02	1.44	4.72

Attenuation increases with increasing temperature and decreases with decreasing temperature at the rate of 0.1%/°F (0.18%/°C).

Specifications subject to change without notice.

TX10 SEMIFLEX CABLE SERIES TFC

ATTENUATION SUMMARY (maximum) @ 68°F (20°C)

Frequency	TX10565		TX10700		TX10840		TX101160	
MHz	dB/100 feet	dB/100 meters	dB/100 feet	dB/100 meters	dB/100 feet	dB/100 meters	dB/100 feet	dB/100 meters
5	0.14	0.46	0.11	0.36	0.09	0.30	0.07	0.23
55	0.47	1.55	0.37	1.21	0.32	1.04	0.24	0.78
211	0.93	3.06	0.74	2.43	0.64	2.09	0.48	1.58
250	1.03	3.38	0.82	2.68	0.70	2.31	0.53	1.76
270	1.07	3.51	0.87	2.85	0.73	2.40	0.56	1.84
300	1.13	3.71	0.90	2.95	0.77	2.53	0.59	1.94
330	1.19	3.91	0.95	3.11	0.82	2.68	0.63	2.06
350	1.23	4.04	0.98	3.21	0.84	2.76	0.65	2.13
400	1.32	4.33	1.05	3.44	0.91	2.99	0.70	2.30
450	1.40	4.59	1.12	3.67	0.97	3.18	0.75	2.46
500	1.49	4.89	1.19	3.90	1.03	3.38	0.80	2.62
550	1.56	5.12	1.25	4.10	1.09	3.58	0.84	2.76
600	1.64	5.38	1.31	4.30	1.14	3.74	0.89	2.92
750	1.85	6.07	1.49	4.89	1.30	4.27	1.01	3.31
870	2.01	6.58	1.62	5.31	1.41	4.63	1.11	3.64
1000	2.17	7.12	1.75	5.74	1.53	5.02	1.20	3.94

Attenuation increases with increasing temperature and decreases with decreasing temperature at the rate of 0.1% / °F (0.18% / °C).

Specifications subject to change without notice.

TIMES FIBER COMMUNICATIONS, INC.®

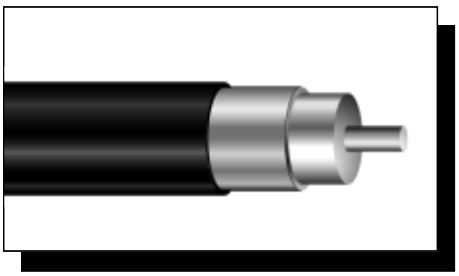
TX10 565 SERIES SEMIFLEX CABLE

PART NUMBERS

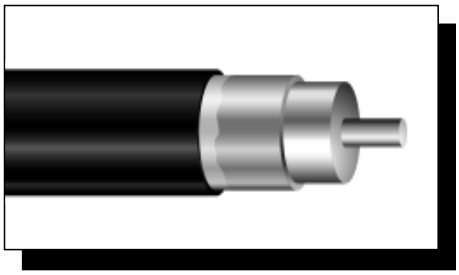
CONSTRUCTION	CENTER CONDUCTOR Copper-Clad Aluminum Part Number	MI Number
Jacketed	TX10565J	25501
Jacketed, Tracer Coded	TX10565JVI	25511
Jacketed Messengered	TX10565MS	25505
Jacketed Flooded, Underground	TX10565JB	25502
Jacketed Flooded, Underground, Extra Thick Jacket	TX10565JBX	25507
Jacketed Flooded, Underground, Extra Thick Jacket, Tracer Coded	TX10565JBXVI	25517
Jacketed Flooded, Underground, Tracer Coded	TX10565JBVI	25512
Jacketed Flooded, Aerial*	TX10565JBF	25504
Jacketed Flooded, Aerial,* Tracer Coded	TX10565JBFVI	25514
Jacketed Armored	TX10565JBA	25503
Jacketed Armored, Tracer Coded	TX10565JBAVI	25513

*Used for aerial applications due to non-flowing, non-dripping compound.

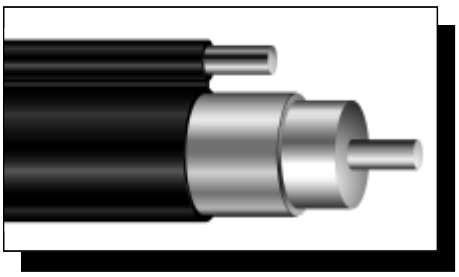
Note: Standard colored tracer stripes are red, yellow, green, blue, white, and slate. For other color combinations, please contact a customer service representative or your area sales representative.



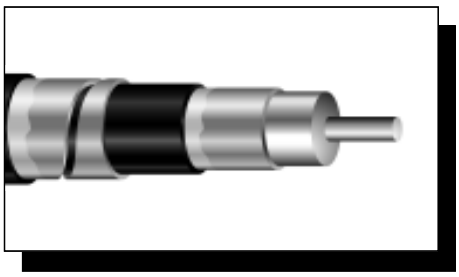
Jacketed



Jacketed Burial



Messengered



Armored

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TIMES FIBER COMMUNICATIONS, INC.®

TFC 565 SERIES SEMIFLEX CABLE TX 10

PHYSICAL SPECIFICATIONS

NOMINAL DIMENSIONS	JACKETED		MESSENGERED		JACKETED BURIAL		EXTRA THICK JACKETED BURIAL		ARMORED	
	inches	(mm)	inches	(mm)	inches	(mm)	inches	(mm)	inches	(mm)
Conductor	0.129	(3.28)	0.129	(3.28)	0.129	(3.28)	0.129	(3.28)	0.129	(3.28)
Dielectric	0.519	(13.2)	0.519	(13.2)	0.519	(13.2)	0.519	(13.2)	0.519	(13.2)
Outer Conductor Thickness	0.023	(0.58)	0.023	(0.58)	0.023	(0.58)	0.023	(0.58)	0.023	(0.58)
Outer Conductor Diameter	0.565	(14.4)	0.565	(14.4)	0.565	(14.4)	0.565	(14.4)	0.565	(14.4)
First Jacket	0.625	(15.9)	0.645	(16.4)	0.635	(16.1)	0.705	(17.9)	0.635	(16.1)
Messenger	—	—	0.188	(4.78)	—	—	—	—	—	—
Armor	—	—	—	—	—	—	—	—	0.655	(16.6)
Second Jacket	—	—	—	—	—	—	—	—	0.755	(19.2)
Nominal Weight (lb/1000 ft) (kg/km)	107	(159)	208	(310)	111	(165)	142	(211)	218	(324)
Nominal Weight (per reel) lb (kg)	384	(174)	656	(298)	393	(178)	494	(224)	681	(309)
Nominal Length (per reel) feet (m)	2450	(747)	2450	(747)	2450	(747)	2450	(747)	2450	(747)
Maximum Pull Force lbf (N)	350	(1557)	1995	(8874)	350	(1557)	350	(1557)	350	(1557)
Minimum Bend Radius in (mm)	5.1	(130)	5.1	(130)	7.5	(191)	7.5	(191)	11	(279)
Messenger Break Strength lbf (N)	—	—	3990	(17748)	—	—	—	—	—	—
Reel Size (inches) (Flange x Width)[1]	44 x 22		48 x 28		44 x 22		48 x 28		48 x 28	
Reel Size (centimeters) (Flange x Width)[1]	112 x 56		122 x 71		112 x 56		122 x 71		122 x 71	

[1] Width = outside flange to outside flange

ELECTRICAL SPECIFICATIONS

Nominal DC Resistance @ 68˚F (20°C)	Ohms per 1000	
Copper-Clad Aluminum Center Conductor	**feet**	**meters**
Center Conductor	0.96	3.15
Outer Conductor	0.34	1.12
Loop	1.30	4.27
Nominal Capacitance	15.2 pF/ft (49.9 pF/m)	
Impedance	75 ± 2 Ohms	
Velocity of Propagation	89% nominal	

MAXIMUM ATTENUATION @ 68°F (20°C)

Frequency MHz	dB per 100 feet	dB per 100 meters
5	0.14	0.46
55	0.47	1.55
211	0.93	3.06
250	1.03	3.38
270	1.07	3.51
300	1.13	3.71
330	1.19	3.91
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
870	2.01	6.58
1000	2.17	7.12

Attenuation increases with increasing temperature and decreases with decreasing temperature at the rate of 0.1% / °F (0.18% / °C)

Specifications subject to change without notice.

TIMES FIBER COMMUNICATIONS, INC.®

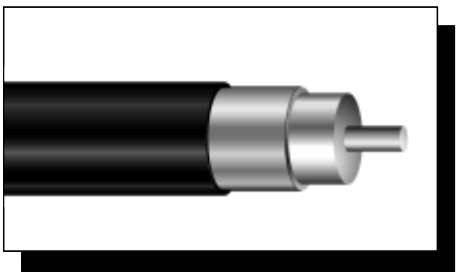
TX10 700 SERIES SEMIFLEX CABLE

PART NUMBERS

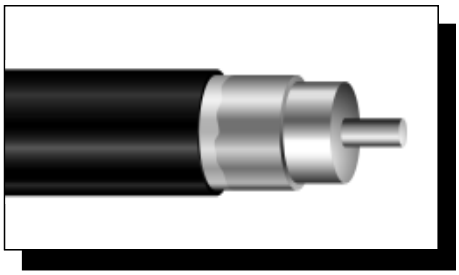
CONSTRUCTION	CENTER CONDUCTOR Copper-Clad Aluminum Part Number	MI Number
Jacketed	TX10700J	25701
Jacketed, Tracer Coded	TX10700JVI	25711
Jacketed Messengered	TX10700MS	25705
Jacketed Flooded, Underground	TX10700JB	25702
Jacketed Flooded, Underground, Extra Thick Jacket	TX10700JBX	25707
Jacketed Flooded, Underground, Extra Thick Jacket, Tracer Coded	TX10700JBXVI	25717
Jacketed Flooded, Underground, Tracer Coded	TX10700JBVI	25712
Jacketed Flooded, Aerial*	TX10700JBF	25704
Jacketed Flooded, Aerial,* Tracer Coded	TX10700JBFVI	25714
Jacketed Armored	TX10700JBA	25703
Jacketed Armored, Tracer Coded	TX10700JBAVI	25713

*Used for aerial applications due to non-flowing, non-dripping compound.

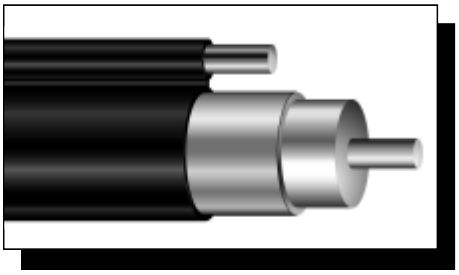
Note: Standard colored tracer stripes are red, yellow, green, blue, white, and slate. For other color combinations, please contact a customer service representative or your area sales representative.



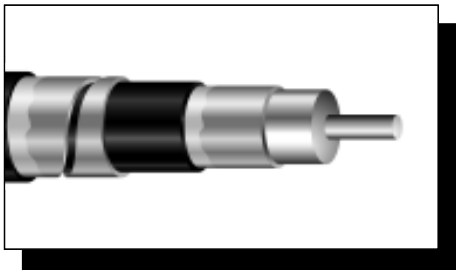
Jacketed



Jacketed Burial



Messengered



Armored

Order From: MULTICOM®

Toll Free: 800-423-2594
www.multicominc.com
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TIMES FIBER COMMUNICATIONS, INC.®

TFC 700 SERIES SEMIFLEX CABLE TX10

PHYSICAL SPECIFICATIONS

NOMINAL DIMENSIONS	JACKETED		JACKETED MESSENGERED		JACKETED BURIAL		EXTRA THICK JACKETED BURIAL		ARMORED	
	inches	(mm)	inches	(mm)	inches	(mm)	inches	(mm)	inches	(mm)
Conductor	0.163	(4.14)	0.163	(4.14)	0.163	(4.14)	0.163	(4.14)	0.163	(4.14)
Dielectric	0.653	(16.6)	0.653	(16.6)	0.653	(16.6)	0.653	(16.6)	0.653	(16.6)
Outer Conductor Thickness	0.025	(0.64)	0.025	(0.64)	0.025	(0.64)	0.025	(0.64)	0.025	(0.64)
Outer Conductor Diameter	0.703	(17.9)	0.703	(17.9)	0.703	(17.9)	0.703	(17.9)	0.703	(17.9)
First Jacket	0.765	(19.4)	0.783	(19.9)	0.775	(19.7)	0.843	(21.4)	0.775	(19.7)
Messenger	—	—	0.188	(4.78)	—	—	—	—	—	—
Armor	—	—	—	—	—	—	—	—	0.795	(20.2)
Second Jacket	—	—	—	—	—	—	—	—	0.885	(22.5)
Nominal Weight (lb/1000 ft) (kg/km)	152	(226)	254	(378)	157	(234)	193	(287)	280	(417)
Nominal Weight (per reel) lb (kg)	528	(239)	811	(368)	540	(245)	631	(286)	850	(386)
Nominal Length (per reel) feet (m)	2500	(762)	2500	(762)	2500	(762)	2500	(762)	2500	(762)
Maximum Pull Force lbf (N)	500	(2224)	1995	(8874)	500	(2224)	500	(2224)	500	(2224)
Minimum Bend Radius in (mm)	6.5	(165)	6.5	(165)	10.0	(254)	10.0	(254)	13.0	(330)
Messenger Break Strength lbf (N)	—	—	3990	(17748)	—	—	—	—	—	—
Reel Size (inches) (Flange x Width)[1]	48 x 28		54 x 28		48 x 28		50 x 28		50 x 28	
Reel Size (centimeters) (Flange x Width)[1]	122 x 71		137 x 71		122 x 71		127 x 71		127 x 71	

[1] Width = outside flange to outside flange

ELECTRICAL SPECIFICATIONS

Nominal DC Resistance @ 68°F (20°C)	Ohms per 1000	
Copper-Clad Aluminum Center Conductor	feet	meters
Center Conductor	0.60	1.97
Outer Conductor	0.25	0.82
Loop	0.85	2.79
Nominal Capacitance	15.2 pF/ft (49.9 pF/m)	
Impedance	75 ±2 Ohms	
Velocity of Propagation	89% nominal	

MAXIMUM ATTENUATION @ 68°F (20°C)

Frequency MHz	dB per 100 feet	dB per 100 meters
5	0.11	0.36
55	0.37	1.21
211	0.74	2.43
250	0.82	2.68
270	0.87	2.85
300	0.90	2.95
330	0.95	3.11
350	0.98	3.21
400	1.05	3.44
450	1.12	3.67
500	1.19	3.90
550	1.25	4.10
600	1.31	4.30
750	1.49	4.89
870	1.62	5.31
1000	1.75	5.74

Attenuation increases with increasing temperature and decreases with decreasing temperature at the rate of 0.1% / °F (0.18% / °C)

Specifications subject to change without notice.

TX FLEXIBLE FEEDER®

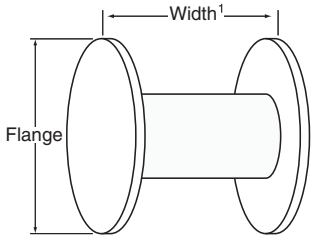
PART NUMBERS

	BRAID COVERAGE	
CONSTRUCTION	**STANDARD**	**QUADSHIELD**
Nominal Braid Coverage %	60	60-40
PVC Jacket (Regular)		
Single	02850 TX15A60-VB	02852 TX15AQ-VB
Single (Colors)	—	—
Single Messengered	02853 TX15A60-VB-109M	02854 TX15AQ-VB-109M
Polyethylene Jacket (Underground Floodant)		
Single Flooded	02851 TX15A60-FEB	02858 TX15AQ-FEB
Single Flooded (Colors)	—	02859 TX15AQ-FEC
PVC Jacket (lifeTime™ Floodant)		
Single Flooded	32850 TX15A60-LTVB	32852 TX15AQ-LTVB
Single Flooded Messengered	—	32854 TX15AQ-LTVB-109M
PVC Jacket, Flame Retardant – NEC Article 820 – "CATV (UL)"		
Single	02850V TX15A60-VBV	02852V TX15AQ-VBV
Single (Colors)	—	—
PVC Jacket, Flame Retardant – NEC Article 820 – "CATVR (UL)"		
Single	02850R TX15A60-VBR	02852R TX15AQ-VBR
Single (Colors)	—	—

FLEXIBLE FEEDER TX

REEL SIZE

CONSTRUCTION TYPE	REEL SIZE (Flange x Width)	
Series 15	inches	centimeters
All Types	30x15	76x39



[1] Width = outside flange to outside flange

MAXIMUM ATTENUATION @ 68°F (20°C)

Frequency MHz	dB per 100 feet	dB per 100 meters
5	0.21	0.69
55	0.60	1.97
211	1.16	3.81
250	1.26	4.13
270	1.31	4.30
300	1.39	4.56
330	1.45	4.76
350	1.50	4.92
400	1.61	5.28
450	1.71	5.61
500	1.80	5.91
550	1.90	6.23
600	1.98	6.50
750	2.23	7.32
870	2.41	7.91
1000	2.59	8.50

Attenuation increases with increasing temperature and decreases with decreasing temperature at the rate of 0.1% /°F (0.18% /°C)

Specifications subject to change without notice.

TX FLEXIBLE FEEDER

PHYSICAL SPECIFICATIONS

NOMINAL DIMENSIONS	STANDARD		QUADSHIELD	
Braid Coverage %	60		60-40	
	inches	(mm)	inches	(mm)
Conductor	0.1090	(2.77)	0.1090	(2.77)
Dielectric	0.455	(11.6)	0.455	(11.6)
Sealed APA Tape (1st Outer Conductor)	0.463	(11.6)	0.463	(11.8)
Aluminum Braid (2nd Outer Conductor)	0.490	(12.4)	0.490	(12.4)
Unsealed APA Tape (3rd Outer Conductor)	—	—	0.494	(12.5)
Aluminum Braid (4th Outer Conductor)	—	—	0.523	(13.3)
Jacket	0.590	(15.0)	0.623	(15.8)
Cable Width (Single)				
Messenger Diameter (Single)	0.109	(2.77)	0.109	(2.77)
Single Messengered Width	0.814	(20.7)	0.847	(21.5)

Messenger Break Strength	Size	Min	Max
	0.109 in (2.77mm)	1800 lb (8007 N)	2190 lb (9742 N)

Cable Weight [lb./kft. (kg/km)]

Regular	60		60-40	
Single	101	(150)	115	(171)
Single Messengered	143	(213)	—	—
Underground				
Single Flooded (PVC)	—	—	—	—
Single Flooded (PE)	81	(121)	93	(138)
lifeTime™				
Single Flooded	99	(147)	112	(167)
Single Flooded Messengered	—	—	153	(228)

ELECTRICAL SPECIFICATIONS

Nominal DC Resistance @ 68°F (20°C)	Ohms per kft. (Ohms/ km)			
Braid Coverage %	Standard		Quadshield	
Conductors	60		60-40	
Center Conductor	1.35	(4.43)	1.35	(4.43)
Outer Conductor	4.42	(14.50)	2.50	(8.20)
Loop	5.77	(18.93)	3.85	(12.63)
Nominal Capacitance	15.5 pF/ft (50.9 pF/m)			
Impedance	75 ± 2 Ohms			
Velocity of Propagation	88% nominal			

Specifications subject to change without notice.

TIMES FIBER COMMUNICATIONS, INC.

HEADEND SERIES DROP CABLE T10

DETAILS OF CONSTRUCTION AND MATERIALS

- Center Conductor - Silver-plated copper-clad steel for long term low contact resistance, low attenuation and axial strength, with easy cable preparation and reliable connector attachment for "F" type fittings.
- Dielectric - Foam Polyethylene, low loss, high velocity providing optimum dielectric properties. The foam is bonded to the center conductor with an easily stripped, proprietary moisture-blocking polymer.
- Outer Conductor
  1. Sealed APA Laminated Tape
  2. 95% Aluminum Braid
  3. APA Laminated Tape
  4. 95% Aluminum Braid
- Jacket - Flame retardant PVC - NEC Article 820 - CATV (UL)"

Application: Headend Cable is recommended for installation in headends where cable may be subjected to tight bends and mechanical abuse.

PART NUMBERS

DESCRIPTION	
T59SCSQ95/95-VBV	02240V
T59SCSQ95/95-VCV	02241V

PHYSICAL SPECIFICATIONS

NOMINAL DIMENSIONS	inches	(mm)
Conductor	0.032	(0.81)
Dielectric	0.144	(3.66)
First Outer Conductor	0.152	(3.86)
Second Outer Conductor	0.176	(4.47)
Third Outer Conductor	0.180	(4.57)
Fourth Outer Conductor	0.205	(5.21)
Jacket	0.262	(6.65)
Cable Weight, lbs per kft (kg/km)	31	(46)

ELECTRICAL SPECIFICATIONS

	Ohms/1000 ft	(Ohms/km)
Nominal DC Resistance at 68°F (20°C)		
Center Conductor	25.3	(83.0)
Outer Conductor	3.57	(11.7)
Loop	28.9	(94.8)
Nominal Capacitance	16.3 pF/ft	(53.5 pF/m)
Impedance	75 ±3 Ohms	
Velocity of Propagation	83% nominal	

MAXIMUM ATTENUATION @ 68°F (20°C)

Frequency MHz	dB per 100 feet	dB per 100 meters
5	0.77	2.53
55	1.88	6.17
211	3.59	11.78
250	3.89	12.76
270	4.05	13.29
300	4.27	14.01
330	4.50	14.76
350	4.64	15.22
400	4.88	16.01
450	5.30	17.39
500	5.50	18.04
550	5.90	19.36
600	6.18	20.28
750	6.96	22.83
870	7.54	24.75
1000	8.09	26.54

Attenuation increases with increasing temperature and decreases with decreasing temperature at the rate of 0.1% (0.18% / °C)