



**Trunk &
Distribution
Cable Product
Catalog**

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Thank You...

...for your interest in CommScope® trunk and distribution cable products. You are the reason we are the world leader in coaxial cable. Our new catalog includes the products which you request most often. However, if you do not see the product that you need listed in this catalog, contact the sales representative in your area or contact our Customer Service Department at:

800-982-1708 • 828-324-2200 • Fax: 828-328-3400 • International Fax: 828-323-4989

Coaxial Cable Products

Shipments of 5,000 lbs. (2268 kgs) or more F.O.B. factory, freight allowed. Shipments of less than 5,000 lbs. (2268 kgs.) F.O.B. factory.

Parameter III®, CableGuard®, Riser and Plenum Standard Cable Lengths

.412 in. (10.46 mm) – 3,000 ft. (914.4 meters)	.750 in. (19.1 mm) – 2,500 ft. (762.0 meters)
.500 in. (12.7 mm) – 2,400 ft. (731.5 meters)	.840 in. (21.34 mm) – 2,450 ft. (747.0 meters)
.565 in. (14.40 mm) – 2,450 ft. (747.0 meters)	.875 in. (22.2 mm) – 2,500 ft. (762.0 meters)
.625 in. (15.8 mm) – 2,400 ft. (731.5 meters)	1.000 in. (24.4 mm) – 2,400 ft. (731.5 meters)
.700 in. (17.86 mm) – 2,500 ft. (762.0 meters)	

Quantum Reach® Standard Cable Lengths

.320 in. (8.13 mm) – 3,700 ft. (1128.0 meters)	.860 in. (21.84 mm) – 2,700 ft. (833.3 meters)
.540 in. (13.72 mm) – 3,700 ft. (1128.0 meters)	1.125 in. (25.58 mm) – 3,000 ft. (914.6 meters)
.715 in. (15.8 mm) – 3,000 ft. (914.6 meters)	

Each shipment shall be standard lengths, plus or minus 10%. Not more than 10% of shipment shall be other than standard lengths, with no lengths shorter than 1,000 ft. (305 meters).

Method of Shipment

Method of shipment at discretion of shipper, unless specified in order.

Inspection

Inspection and final acceptance shall be made at factory prior to shipment.

Terms and Conditions

On approved credit, net 30 days from date of invoice; 1.5% finance charge equivalent to 18% per annum will be added after due date. All orders subject to acceptance at factory and will be billed at price in effect at time of shipment. Prices, discounts, terms conditions and specifications are subject to change without notice.

Custom

Custom printing, colored jackets, and color tracers are available for an additional charge. Please contact your customer service representative for more information.

CommScope Reel Recycling Program

CommScope is pleased to do our part in preserving our environment by offering a reel recycling program to our customers. We will pick up and recycle clean trunk and distribution reels and/or flanges in minimum ½ truckload quantities at our expense, and extend a per reel credit. Cable remnants may be left on the reels.

Criteria for returned reels

1. CommScope reels only shall be accepted.
2. Reels/flanges must not be warped.
3. Reels/flanges must be free of markings and/or paint.
4. Reels/flanges must not be overly weathered.
5. Reels/flanges must be free of broken boards.
6. CommScope reserves the right to reject any reels or flanges that does not meet our standard.

Minimum quantity will be one-half truck load. 1,000 miles or more from Catawba, NC will require reels to be broken down and flanges returned.

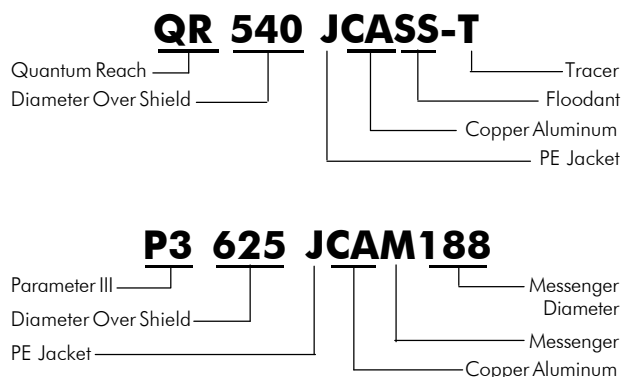
Truck Load Quantities

Flange Size	Flanges	Reels
30"	1,400	180
35"	1,400	180
42"	700	80
50"	500	55
54"	450	50
55"	450	50
61"	300	35
63"	250	30

Explanation of Codes

Prefix

P3 = Parameter III®
 QR = Quantum Reach®
 PF = Power Feeder™

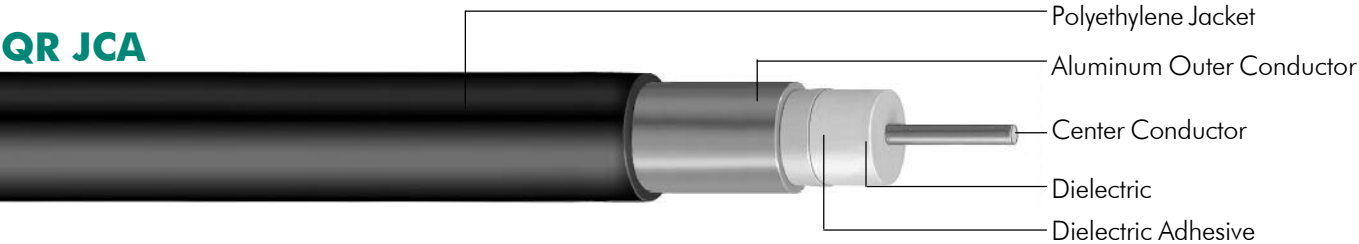


Suffix

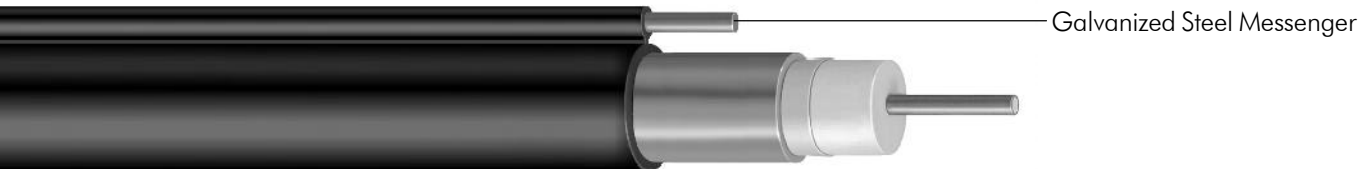
J = Jacketed
 CA = Copper Aluminum
 SS = Migra-Heal™ Flooding
 SP = Aerial Floodant
 T = Tracer
 M = Messenger
 CG = CableGuard®

Aerial Construction

QR JCA

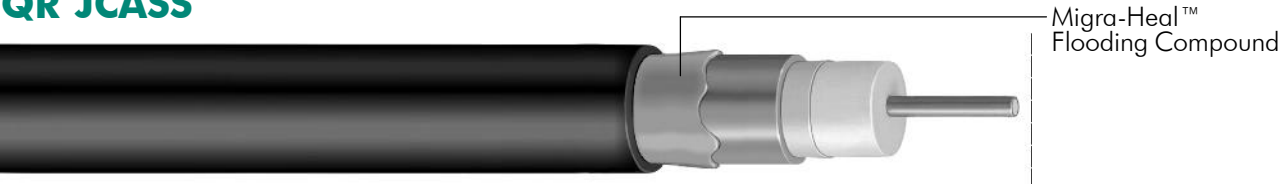


QR JCAM

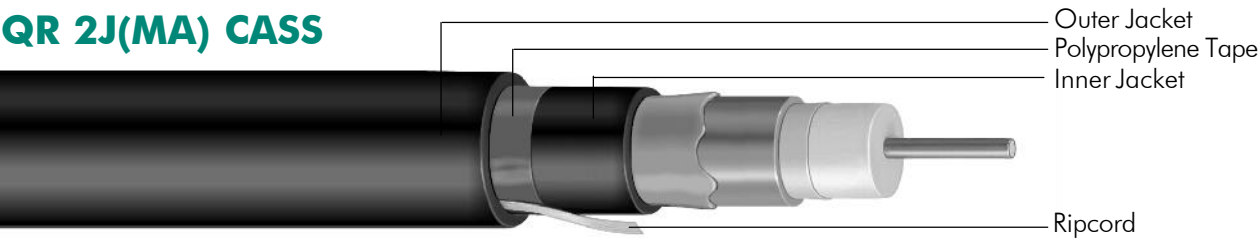


Underground Construction

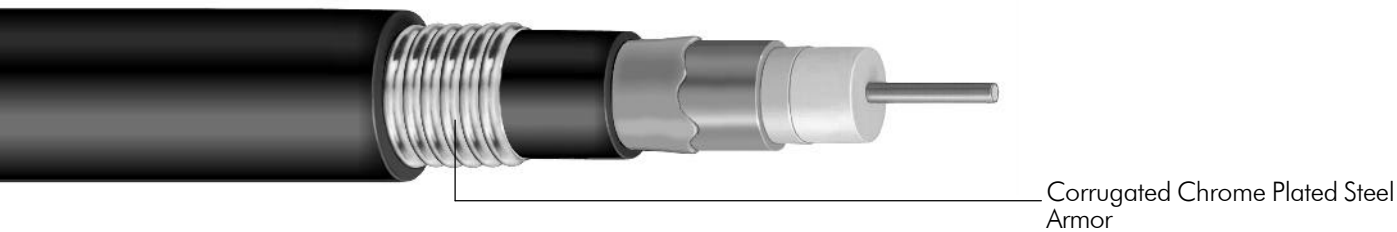
QR JCASS



QR 2J(MA) CASS

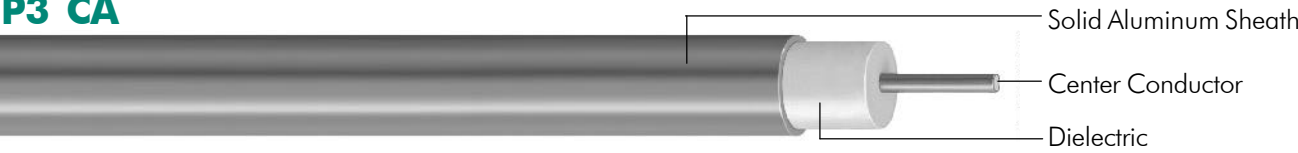


QR JACASS

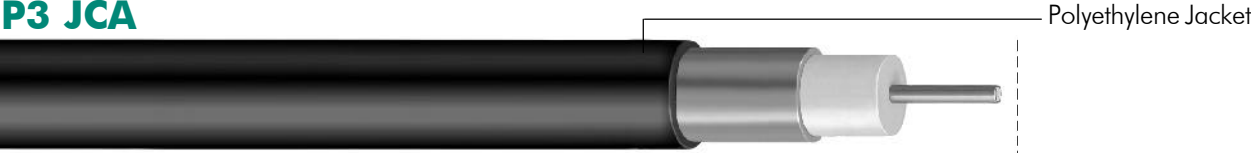


Aerial Construction

P3 CA



P3 JCA



P3 JCAM (Solid Messenger)



P3 JCAM (Stranded Messenger)

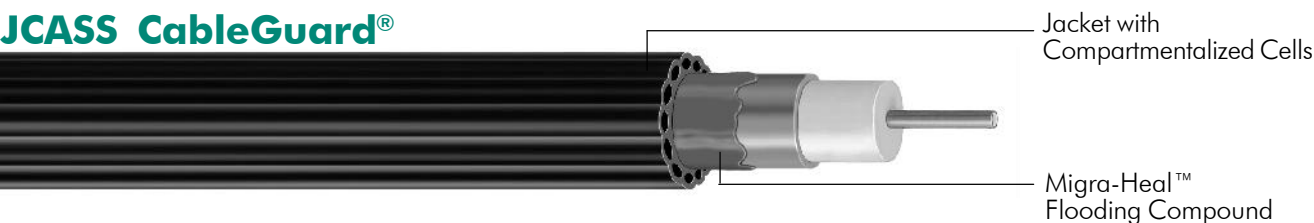


Underground Construction

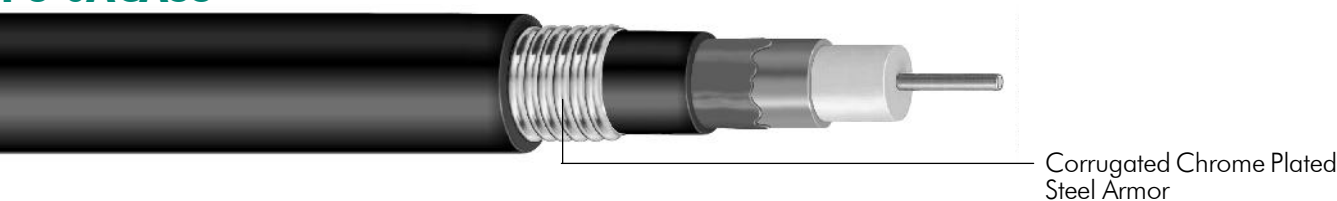
P3 JCASS



JCASS CableGuard®



P3 JACASS



MDU 320 Product Descriptions



CommScope's patented Quantum Reach® (QR®) coaxial cable was developed to meet the increasing demands of tomorrow's broadband networks. QR has the highest reliability and flexibility of any coaxial cable, low RF attenuation and an unprecedented 10 year warranty.

All QR cable products offer tough polyethylene jackets and a standardized, environmentally sealed connector interface engineered for reliability and craft friendliness.

MDU 320 is optimized for use in MDU and feeder applications. MDU 320 offers unmatched flexibility, reliability and cost effectiveness.

AERIAL CONSTRUCTION

Construction Code	Product Description	Cable Wt. lbs/kft (kg/km)	Shipping Wt. lbs/kft (kg/km)
MDU 320 JCA	A precision aluminum strip is formed and continuously RF welded around a high compression micro-cellular foam dielectric core, eliminating RF leakage, and the rigidity common in traditional coaxial products. The shield is fully bonded to the dielectric core, as is the copper clad aluminum center conductor. A tough polyethylene jacket is applied standard, which enhances cable reliability and allows QR's unique connector technology to form an environmental seal.	46 (69)	65 (97)
MDU 320 JCAM109	For self-supporting aerial applications, an integrated messenger is added alongside the cable in a "figure 8" construction.	88 (131)	107 (159)

UNDERGROUND CONSTRUCTION

Construction Code	Product Description	Cable Wt. lbs/kft (kg/km)	Shipping Wt. lbs/kft (kg/km)
MDU 320 JCASS	CommScope's Migra-Heal™ flooding compound is applied under the jacket of this design, making it suitable for direct burial. Migra-Heal™ floodant is designed to flow into damaged jacket areas, sealing this area and inhibiting corrosion.	46 (69)	65 (97)

RISER CONSTRUCTION

Construction Code	Product Description	Cable Wt. lbs/kft (kg/km)	Shipping Wt. lbs/kft (kg/km)
MDU 320 JCAR	Copper clad aluminum center conductor; expanded polyethylene dielectric; continuous aluminum outer conductor; flame retardant polyethylene (PE) jacket. Tested and marked to comply with the National Electrical Code requirements for (CATVR) Riser Rating. CommScope's riser products are certified for use in indoor applications.	56 (83)	75 (112)

Physical Dimensions

Component	Inches	mm
Nominal Center Conductor Diameter	0.071	1.80
Nominal Diameter Over Dielectric	0.294	7.47
Nominal Diameter Over Outer Conductor	0.320	8.13
Nominal Outer Conductor Thickness	0.013	0.34
Nominal Diameter Over Jacket	0.395	10.03
Nominal Jacket Wall Thickness	0.0375	0.89
Messenger Version		
Diameter of Steel Messenger	0.109	2.77

Mechanical Characteristics

Minimum Bending Radius	3.0 in.	76.2 mm
Maximum Pulling Tension	120 lbs.	54.5 kg _f
Minimum Breaking Strength (109) of Messenger	1,800 lbs.	816 kg _f

Electrical Characteristics

Capacitance	15.3 ± 1.0 pf/ft	50 ± 3.0 nf/km
Impedance	75 ± 3 ohms	
Velocity of Propagation	87%	

Maximum D.C. Resistance @ 68°F (20°C)

Copper Clad

Inner Conductor	3.28 ohms/1000 ft.	10.76 ohms/km
Outer Conductor	0.99 ohms/1000 ft.	3.25 ohms/km
Loop	4.27 ohms/1000 ft.	14.01 ohms/km

Solid Copper

Inner Conductor	2.12 ohms/1000 ft.	6.96 ohms/km
Outer Conductor	0.99 ohms/1000 ft.	3.25 ohms/km
Loop	3.11 ohms/1000 ft.	10.21 ohms/km

Specifications subject to change without notice.

Attenuation [@ 68° F. (20° C.)]

Frequency (MHz)	(dB/100 ft.) Maximum	(dB/100 m) Maximum
5	0.24	0.79
30	0.62	2.03
45	0.76	2.49
50	0.80	2.62
55 (Ch. 2)	0.84	2.76
83 (Ch. 6)	1.07	3.51
108	1.22	4.00
150	1.45	4.76
181	1.60	5.25
193	1.65	5.41
211 (Ch. 13)	1.73	5.68
220	1.76	5.77
250	1.86	6.10
270	1.94	6.37
300	2.04	6.69
325	2.17	7.12
350	2.25	7.38
375	2.30	7.55
400	2.38	7.81
425	2.45	8.04
450	2.52	8.27
500	2.72	8.92
550	2.85	9.35
600	2.98	9.78
750	3.15	10.86
865	3.62	11.87
1000	3.89	12.76

QR® 540 Product Descriptions



CommScope's patented Quantum Reach® (QR®) coaxial cable was developed to meet the increasing demands of tomorrow's broadband networks. QR has the highest reliability and flexibility of any coaxial cable, low RF attenuation and an unprecedented 10 year warranty.

All QR cable products offer tough polyethylene jackets and a standardized, environmentally sealed connector interface engineered for reliability and craft friendliness.

QR 540 is optimized for use in broadband feeder plants. QR 540 offers lower attenuation than larger traditional products, with unmatched flexibility, reliability and cost effectiveness.

AERIAL CONSTRUCTION

Construction Code	Product Description	Cable Wt. lbs/kft (kg/km)	Shipping Wt. lbs/kft (kg/km)
QR 540 JCA	A precision aluminum strip is formed and continuously RF welded around a high compression micro-cellular foam dielectric core, eliminating RF leakage, and the rigidity common in traditional coaxial products. The shield is fully bonded to the dielectric core, as is the copper clad aluminum center conductor. A tough polyethylene jacket is applied standard, which enhances cable reliability and allows QR's unique connector technology to form an environmental seal.	92 (137)	128 (190)
QR 540 JCAM109	For self-supporting aerial applications, an integrated messenger is added alongside the cable in a "figure 8" construction.	132 (196)	173 (257)

UNDERGROUND CONSTRUCTION

Construction Code	Product Description	Cable Wt. lbs/kft (kg/km)	Shipping Wt. lbs/kft (kg/km)
QR 540 JCASS	CommScope's Migra-Heal™ flooding compound is applied under the jacket of this design, making it suitable for direct burial. Migra-Heal™ floodant is designed to flow into damaged jacket areas, sealing this area and inhibiting corrosion.	92 (137)	128 (190)
QR 540 2J(MA) CASS	QR Dual jacket products have been developed for direct burial applications where enhanced protection is desired. The second polyethylene jacket and integrated polypropylene tape greatly enhance jacket cut-through resistance. Standard QR connectors and tools may be used with this enhanced cable, since the second jacket is easily stripped away at the cable end using the provided ripcord. QR dual jacket products provide the best of both worlds—enhanced jacket performance and the renowned QR connector interface.	121 (180)	170 (253)
QR 540 JACASS	For the harshest of underground environments. A corrugated chrome plated steel armor is available, applied longitudinally and with flooding compound between the armor and the inner jacket. The armor is bonded to the outer jacket and enhances cable longevity in underground applications.	207 (310)	262 (390)

RISER CONSTRUCTION

Construction Code	Product Description	Cable Wt. lbs/kft (kg/km)	Shipping Wt. lbs/kft (kg/km)
QR 540 JCAR	Copper clad aluminum center conductor; expanded polyethylene dielectric; continuous aluminum outer conductor; flame retardant polyethylene (PE) jacket. Tested and marked to comply with the National Electrical Code requirements for (CATVR) Riser Rating. CommScope's riser products are certified for use in indoor applications.	91 (135)	126 (188)

Physical Dimensions

Component	Inches	mm
Nominal Center Conductor Diameter	0.124	3.15
Nominal Diameter Over Dielectric	0.514	13.03
Nominal Diameter Over Outer Conductor	0.540	13.72
Nominal Outer Conductor Thickness	0.0135	0.343
Nominal Diameter Over Jacket	0.610	15.49
Nominal Jacket Wall Thickness	0.035	0.89
Messenger Version		
Diameter of Steel Messenger	0.109	2.77
Dual Jacket Version		
Nominal Jacket Wall Thickness of Outer Jacket	0.045	1.14
Nominal Diameter Over Outer Jacket	0.700	17.78
Armored Versions		
Nominal Diameter Over Corrugated Armor	0.680	17.39
Nominal Armor Thickness	0.010	0.20
Nominal Diameter Over Outer Jacket	0.760	19.43
Nominal Thickness of Outer Jacket	0.040	1.02

Mechanical Characteristics

Minimum Bending Radius:		
(Jacketed)	4.0 in.	10.2 cm
(Armored)	6.5 in.	16.5 cm
Maximum Pulling Tension	220 lbs.	100 kg _f
Minimum Breaking Strength (109) of Messenger	1,800 lbs.	816 kg _f

Electrical Characteristics

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

Maximum D.C. Resistance @ 68°F (20°C)

Copper Clad		
Inner Conductor	1.02 ohms/1000 ft.	3.34 ohms/km
Outer Conductor	0.59 ohms/1000 ft.	1.94 ohms/km
Loop	1.61 ohms/1000 ft.	5.28 ohms/km
Solid Copper		
Inner Conductor	0.67 ohms/1000 ft.	2.20 ohms/km
Outer Conductor	0.59 ohms/1000 ft.	1.94 ohms/km
Loop	1.26 ohms/1000 ft.	4.14 ohms/km

Specifications subject to change without notice.

Attenuation [@ 68° F. (20° C.)]

Frequency (MHz)	(dB/100 ft.)		(dB/100 m)	
	Nominal	Maximum	Nominal	Maximum
5	0.13	0.14	0.43	0.46
30	0.34	0.34	1.12	1.12
45	0.41	0.41	1.35	1.35
50	0.43	0.44	1.41	1.44
55 (Ch. 2)	0.45	0.47	1.48	1.54
83 (Ch. 6)	0.55	0.58	1.80	1.90
108	0.63	0.66	2.07	2.17
150	0.74	0.79	2.43	2.59
181	0.84	0.88	2.76	2.89
193	0.87	0.90	2.85	2.95
211 (Ch. 13)	0.91	0.95	2.99	3.12
220	0.93	0.98	3.05	3.22
250	0.99	1.03	3.25	3.38
270	1.03	1.07	3.38	3.51
300	1.08	1.13	3.54	3.71
325	1.13	1.18	3.71	3.87
350	1.17	1.23	3.84	4.03
375	1.22	1.27	4.00	4.17
400	1.26	1.32	4.13	4.33
425	1.30	1.37	4.27	4.49
450	1.35	1.40	4.44	4.59
500	1.41	1.49	4.63	4.89
550	1.51	1.56	4.95	5.12
600	1.59	1.64	5.23	5.38
750	1.80	1.85	5.92	6.07
865	1.90	2.00	6.23	6.56
1000	2.10	2.17	6.91	7.12

QR® 715 Product Descriptions



CommScope's patented Quantum Reach® (QR®) coaxial cable was developed to meet the increasing demands of tomorrow's broadband networks. QR has the highest reliability and flexibility of any coaxial cable, low RF attenuation and an unprecedented 10 year warranty.

All QR cable products offer tough polyethylene jackets and a standardized, environmentally sealed connector interface engineered for reliability and craft friendliness.

QR 715 is optimized for use in broadband distribution plants. QR 715 offers lower attenuation than larger traditional products, with unmatched flexibility, reliability and cost effectiveness.

AERIAL CONSTRUCTION		Cable Wt.	Shipping Wt.
Construction Code	Product Description	lbs/kft (kg/km)	lbs/kft (kg/km)
QR 715 JCA	A precision aluminum strip is formed and continuously RF welded around a high compression micro-cellular foam dielectric core, eliminating RF leakage, and the rigidity common in traditional coaxial products. The shield is fully bonded to the dielectric core, as is the copper clad aluminum center conductor. A tough polyethylene jacket is applied standard, which enhances cable reliability and allows QR's unique connector technology to form an environmental seal.	144 (214)	205 (305)
QR 715 JCAM188	For self-supporting aerial applications, an integrated messenger is added alongside the cable in a "figure 8" construction.	230 (342)	301 (448)

UNDERGROUND CONSTRUCTION		Cable Wt.	Shipping Wt.
Construction Code	Product Description	lbs/kft (kg/km)	lbs/kft (kg/km)
QR 715 JCASS	CommScope's Migra-Heal™ flooding compound is applied under the jacket of this design, making it suitable for direct burial. Migra-Heal™ floodant is designed to flow into damaged jacket areas, sealing this area and inhibiting corrosion.	144 (214)	205 (305)
QR 715 2J(MA)CASS	QR Dual jacket products have been developed for direct burial applications where enhanced protection is desired. The second polyethylene jacket and integrated polypropylene tape greatly enhance jacket cut-through resistance. Standard QR connectors and tools may be used with this enhanced cable, since the second jacket is easily stripped away at the cable end using the provided ripcord. QR dual jacket products provide the best of both worlds—enhanced jacket performance and the renowned QR connector interface.	182 (271)	232 (345)
QR 715 JACASS	For the harshest of underground environments. A corrugated chrome plated steel armor is available, applied longitudinally and with flooding compound between the armor and the inner jacket. The armor is bonded to the outer jacket and enhances cable longevity in underground applications.	289 (433)	384 (571)

Physical Dimensions

Component	Inches	mm
Nominal Center Conductor Diameter	0.166	4.22
Nominal Diameter Over Dielectric	0.686	17.42
Nominal Diameter Over Outer Conductor	0.715	18.16
Nominal Outer Conductor Thickness	0.0145	0.37
Nominal Diameter Over Jacket	0.785	19.94
Nominal Jacket Wall Thickness	0.035	0.89
Messenger Version		
Diameter of Steel Messenger	0.188	4.78
Dual Jacket Version		
Nominal Jacket Wall Thickness of Outer Jacket	0.035	1.22
Nominal Diameter Over Outer Jacket	0.881	21.88
Armored Versions		
Nominal Diameter Over Corrugated Armor	0.855	2.81
Nominal Armor Thickness	0.008	0.20
Nominal Diameter Over Outer Jacket	0.935	23.75
Nominal Thickness of Outer Jacket	0.040	1.02

Mechanical Characteristics

Minimum Bending Radius:		
(Jacketed)	5.0 in.	12.7 cm
(Armored)	7.5 in.	19.1 cm
Maximum Pulling Tension	340 lbs.	154 kg _f
Minimum Breaking Strength (188) of Messenger	3,900 lbs.	1,769 kg _f

Electrical Characteristics

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

Maximum D.C. Resistance @ 68°F (20°C)

Copper Clad		
Inner Conductor	0.579 ohms/1000 ft.	1.90 ohms/km
Outer Conductor	0.418 ohms/1000 ft.	1.37 ohms/km
Loop	0.997 ohms/1000 ft.	3.27 ohms/km
Solid Copper		
Inner Conductor	0.380 ohms/1000 ft.	1.25 ohms/km
Outer Conductor	0.418 ohms/1000 ft.	1.37 ohms/km
Loop	0.796 ohms/1000 ft.	2.61 ohms/km

Specifications subject to change without notice.

Attenuation [@ 68° F. (20° C.)]

Frequency (MHz)	(dB/100 ft.)		(dB/100 m)	
	Nominal	Maximum	Nominal	Maximum
5	0.09	0.11	0.30	0.36
30	0.25	0.27	0.82	0.89
45	0.31	0.33	1.02	1.08
50	0.33	0.35	1.08	1.15
55 (Ch. 2)	0.35	0.36	1.15	1.18
83 (Ch. 6)	0.43	0.45	1.41	1.48
108	0.48	0.51	1.57	1.67
150	0.57	0.61	1.87	2.00
181	0.66	0.68	2.17	2.23
193	0.68	0.70	2.23	2.30
211 (Ch. 13)	0.71	0.74	2.33	2.43
220	0.72	0.76	2.36	2.49
250	0.77	0.81	2.53	2.66
270	0.80	0.84	2.62	2.76
300	0.83	0.89	2.73	2.92
325	0.88	0.94	2.89	3.08
350	0.91	0.97	2.99	3.18
375	0.95	1.01	3.12	3.31
400	0.98	1.05	3.22	3.44
425	1.01	1.09	3.31	3.58
450	1.04	1.12	3.41	3.67
500	1.10	1.19	3.61	3.90
550	1.18	1.25	3.87	4.10
600	1.22	1.31	4.01	4.30
750	1.36	1.49	4.47	4.89
865	1.48	1.62	4.86	5.31
1000	1.59	1.75	5.23	5.74

QR® 860 Product Descriptions



CommScope's patented Quantum Reach® (QR®) coaxial cable was developed to meet the increasing demands of tomorrow's broadband networks. QR has the highest reliability and flexibility of any coaxial cable, low RF attenuation and an unprecedented 10 year warranty.

All QR cable products offer tough polyethylene jackets and a standardized, environmentally sealed connector interface engineered for reliability and craft friendliness.

QR860 is optimized for use in broadband trunk & distribution plants. QR 860 offers lower attenuation than larger traditional products, with unmatched flexibility, reliability and cost effectiveness.

AERIAL CONSTRUCTION		Cable Wt.	Shipping Wt.
Construction Code	Product Description	lbs/kft (kg/km)	lbs/kft (kg/km)
QR 860 JCA	A precision aluminum strip is formed and continuously RF welded around a high compression micro-cellular foam dielectric core, eliminating RF leakage, and the rigidity common in traditional coaxial products. The shield is fully bonded to the dielectric core, as is the copper clad aluminum center conductor. A tough polyethylene jacket is applied standard, which enhances cable reliability and allows QR's unique connector technology to form an environmental seal.	214 (319)	295 (439)
QR 860 JCAM188	For self-supporting aerial applications, an integrated messenger is added alongside the cable in a "figure 8" construction.	307 (457)	416 (619)

UNDERGROUND CONSTRUCTION		Cable Wt.	Shipping Wt.
Construction Code	Product Description	lbs/kft (kg/km)	lbs/kft (kg/km)
QR 860 JCASS	CommScope's Migra-Heal™ flooding compound is applied under the jacket of this design, making it suitable for direct burial. Migra-Heal™ floodant is designed to flow into damaged jacket areas, sealing this area and inhibiting corrosion.	214 (319)	295 (439)
QR 860 2J(MA)CASS	QR Dual jacket products have been developed for direct burial applications where enhanced protection is desired. The second polyethylene jacket and integrated polypropylene tape greatly enhance jacket cut-through resistance. Standard QR connectors and tools may be used with this enhanced cable, since the second jacket is easily stripped away at the cable end using the provided ripcord. QR dual jacket products provide the best of both worlds—enhanced jacket performance and the renowned QR connector interface.	245 (365)	304 (452)
QR 860 JACASS	For the harshest of underground environments. A corrugated chrome plated steel armor is available, applied longitudinally and with flooding compound between the armor and the inner jacket. The armor is bonded to the outer jacket and enhances cable longevity in underground applications.	394 (587)	517 (769)

Physical Dimensions

Component	Inches	mm
Nominal Center Conductor Diameter	0.203	5.16
Nominal Diameter Over Dielectric	0.828	21.03
Nominal Diameter Over Outer Conductor	0.860	21.84
Nominal Outer Conductor Thickness	0.016	0.41
Nominal Diameter Over Jacket	0.960	24.38
Nominal Jacket Wall Thickness	0.050	1.27
Messenger Version		
Diameter of Steel Messenger	0.188	4.78
Dual Jacket Version		
Nominal Jacket Wall Thickness of Outer Jacket	0.031	1.22
Nominal Diameter Over Outer Jacket	1.026	26.06
Armored Versions		
Nominal Diameter Over Corrugated Armor	1.030	26.16
Nominal Armor Thickness	0.010	0.20
Nominal Diameter Over Outer Jacket	1.110	28.19
Nominal Thickness of Outer Jacket	0.040	1.02

Mechanical Characteristics

Minimum Bending Radius:		
(Jacketed)	7.0 in.	17.8 cm
(Armored)	9.5 in.	24.1 cm
Maximum Pulling Tension	450 lbs.	204 kg _f
Minimum Breaking Strength of Messenger (188)	3,900 lbs.	1,769 kg _f

Electrical Characteristics

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

Maximum D.C. Resistance @ 68°F (20°C)

Copper Clad		
Inner Conductor	0.406 ohms/1000 ft.	1.33 ohms/km
Outer Conductor	0.318 ohms/1000 ft.	1.04 ohms/km
Loop	0.724 ohms/1000 ft.	2.37 ohms/km
Solid Copper		
Inner Conductor	0.250 ohms/1000 ft.	0.82 ohms/km
Outer Conductor	0.318 ohms/1000 ft.	1.04 ohms/km
Loop	0.568 ohms/1000 ft.	1.86 ohms/km

Specifications subject to change without notice.

Attenuation [@ 68° F. (20° C.)]

Frequency (MHz)	(dB/100 ft.)		(dB/100 m)	
	Nominal	Maximum	Nominal	Maximum
5	0.08	0.09	0.26	0.30
30	0.21	0.23	0.69	0.75
45	0.26	0.29	0.88	0.95
50	0.27	0.30	0.89	0.98
55 (Ch. 2)	0.29	0.32	0.95	1.05
83 (Ch. 6)	0.35	0.40	1.15	1.31
108	0.40	0.45	1.31	1.48
150	0.48	0.54	1.57	1.77
181	0.55	0.59	1.80	1.94
193	0.57	0.60	1.87	1.97
211 (Ch. 13)	0.59	0.64	1.94	2.10
220	0.60	0.65	1.97	2.13
250	0.64	0.70	2.10	2.30
270	0.67	0.72	2.20	2.36
300	0.71	0.76	2.33	2.49
325	0.73	0.80	2.39	2.62
350	0.76	0.83	2.49	2.72
375	0.80	0.86	2.62	2.82
400	0.83	0.88	2.72	2.89
425	0.86	0.92	2.82	3.02
450	0.88	0.95	2.89	3.12
500	0.93	1.00	3.05	3.28
550	0.99	1.06	3.25	3.48
600	1.04	1.10	3.41	3.61
750	1.17	1.24	3.85	4.07
865	1.25	1.33	4.10	4.36
1000	1.38	1.44	4.53	4.72

QR® 1125 Product Descriptions



CommScope's patented Quantum Reach® (QR®) coaxial cable was developed to meet the increasing demands of tomorrow's broadband networks. QR has the highest reliability and flexibility of any coaxial cable, low RF attenuation and an unprecedented 10 year warranty.

All QR cable products offer tough polyethylene jackets and a standardized, environmentally sealed connector interface engineered for reliability and craft friendliness.

QR 1125 is optimized for use in broadband trunk plants. QR 1125 offers ultra low attenuation with unmatched flexibility, reliability and cost effectiveness.

AERIAL CONSTRUCTION

Construction Code	Product Description	Cable Wt. lbs/kft (kg/km)	Shipping Wt. lbs/kft (kg/km)
QR 1125 JCA	A precision aluminum strip is formed and continuously RF welded around a high compression micro-cellular foam dielectric core, eliminating RF leakage, and the rigidity common in traditional coaxial products. The shield is fully bonded to the dielectric core, as is the copper clad aluminum center conductor. A tough polyethylene jacket is applied standard, which enhances cable reliability and allows QR's unique connector technology to form an environmental seal.	343 (510)	430 (640)

UNDERGROUND CONSTRUCTION

Construction Code	Product Description	Cable Wt. lbs/kft (kg/km)	Shipping Wt. lbs/kft (kg/km)
QR 1125 JCASS	CommScope's Migra-Heal™ flooding compound is applied under the jacket of this design, making it suitable for direct burial. Migra-Heal™ floodant is designed to flow into damaged jacket areas, sealing this area and inhibiting corrosion.	343 (510)	430 (640)
QR 1125 JACASS	For the harshest of underground environments. A corrugated chrome plated steel armor is available, applied longitudinally and with flooding compound between the armor and the inner jacket. The armor is bonded to the outer jacket and enhances cable longevity in underground applications.	570 (854)	720 (1071)

Physical Dimensions

Component	Inches	mm
Nominal Center Conductor Diameter	0.263	6.68
Nominal Diameter Over Dielectric	1.081	27.46
Nominal Diameter Over Outer Conductor	1.125	28.58
Nominal Outer Conductor Thickness	0.022	0.53
Nominal Diameter Over Jacket	1.225	31.12
Nominal Jacket Wall Thickness	0.050	1.27

Armored Versions

Nominal Diameter Over Corrugated Armor	1.300	33.02
Nominal Shield Thickness	0.010	0.25
Nominal Diameter Over Outer Jacket	1.380	35.05
Nominal Thickness of Outer Jacket	0.040	1.02

Mechanical Characteristics

Minimum Bending Radius:		
(Jacketed)	10.0 in.	25.4 cm
(Armored)	18.0 in.	45.6 cm
Maximum Pulling Tension	750 lbs.	340 kg _f

Electrical Characteristics

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

Maximum D.C. Resistance @ 68°F (20°C)

Copper Clad		
Inner Conductor	0.24 ohms/1000 ft.	0.79 ohms/km
Outer Conductor	0.18 ohms/1000 ft.	0.59 ohms/km
Loop	0.42 ohms/1000 ft.	1.38 ohms/km

Specifications subject to change without notice.

Attenuation [@ 68° F. (20° C.)]

Frequency (MHz)	(dB/100 ft.)		(dB/100 m)	
	Nominal	Maximum	Nominal	Maximum
5	0.07	0.07	0.23	0.23
30	0.16	0.17	0.52	0.56
45	0.20	0.21	0.66	0.69
50	0.21	0.22	0.69	0.72
55 (Ch. 2)	0.22	0.23	0.72	0.76
83 (Ch. 6)	0.27	0.29	0.89	0.95
108	0.31	0.34	1.02	1.12
150	0.36	0.41	1.18	1.35
181	0.43	0.45	1.41	1.48
193	0.45	0.47	1.48	1.54
211 (Ch. 13)	0.47	0.49	1.54	1.61
220	0.48	0.50	1.57	1.64
250	0.51	0.54	1.67	1.77
270	0.53	0.56	1.74	1.84
300	0.56	0.59	1.84	1.94
325	0.58	0.61	1.90	2.00
350	0.60	0.65	1.97	2.13
375	0.64	0.67	2.10	2.20
400	0.66	0.70	2.17	2.30
425	0.69	0.73	2.26	2.40
450	0.71	0.75	2.33	2.46
500	0.74	0.80	2.43	2.62
550	0.79	0.84	2.59	2.76
600	0.83	0.89	2.72	2.92
750	0.93	1.01	3.05	3.31
865	1.00	1.11	3.28	3.64
1000	1.12	1.20	3.67	3.94

Physical Dimensions

Component	Inches	mm
Nominal Center Conductor Diameter	0.089	2.26
Nominal Diameter Over Dielectric	0.362	9.19
Nominal Diameter Over Outer Conductor	0.412	10.46
Nominal Outer Conductor Thickness	0.024	0.64
Jacket Versions		
Nominal Diameter Over Jacket	0.475	11.99
Nominal Jacket Wall Thickness	0.0315	0.76
Nominal Diameter Over Flooded Jacket (JCASS)	0.485	16.27
Messenger Version		
Diameter of Steel Messenger	0.109	2.77
Armored Versions		
Nominal Diameter Over Corrugated Armor	0.560	14.22
Nominal Shield Thickness	0.010	0.20
Nominal Diameter Over Outer Jacket	0.640	16.25
Nominal Thickness of Outer Jacket	0.040	1.02

Mechanical Characteristics

Minimum Bending Radius:

(No Jacket)	6.5 in.	16.5 cm
(Jacketed)	6.0 in.	15.2 cm
(Armored)	8.5 in.	21.6 cm
Maximum Pulling Tension	150 lbs.	68 kg _f
Minimum Breaking Strength of Messenger	(109) 1,800 lbs.	816 kg _f

Electrical Characteristics

Capacitance	15.3 ± 1.0 pF/ft	50 ± 3.0 nF/km
Impedance	75 ± 2 ohms	
Velocity of Propagation	87%	

Maximum D.C. Resistance @ 68°F (20°C)

Copper Clad

Inner Conductor	2.07 ohms/1000 ft.	6.79 ohms/km
Outer Conductor	0.50 ohms/1000 ft.	1.64 ohms/km
Loop	2.57 ohms/1000 ft.	8.43 ohms/km

Solid Copper

Inner Conductor	1.25 ohms/1000 ft.	4.10 ohms/km
Outer Conductor	0.50 ohms/1000 ft.	1.64 ohms/km
Loop	1.75 ohms/1000 ft.	5.74 ohms/km

Specifications subject to change without notice.

Attenuation [@ 68° F. (20° C.)]

Frequency (MHz)	(dB/100 ft.)		(dB/100 m)	
	Nominal	Maximum	Nominal	Maximum
5	0.19	0.20	0.62	0.65
30	0.49	0.51	1.61	1.67
45	0.60	0.63	1.97	2.07
50	0.63	0.66	2.07	2.16
55 (Ch. 2)	0.66	0.69	2.16	2.26
83 (Ch. 6)	0.82	0.86	2.69	2.82
108	0.94	0.99	3.08	3.25
150	1.12	1.18	3.67	3.87
181	1.24	1.30	4.07	4.26
193	1.28	1.34	4.20	4.40
211 (Ch. 13)	1.34	1.41	4.40	4.62
220	1.37	1.44	4.49	4.72
250	1.47	1.54	4.82	5.05
270	1.53	1.61	5.01	5.28
300	1.62	1.70	5.31	5.57
325	1.69	1.77	5.54	5.81
350	1.78	1.87	5.84	6.13
375	1.82	1.91	5.97	6.26
400	1.88	1.97	6.17	6.46
425	1.95	2.05	6.40	6.72
450	2.01	2.11	6.59	6.92
500	2.13	2.24	6.99	7.34
550	2.24	2.35	7.35	7.71
600	2.35	2.47	7.71	8.10
750	2.65	2.78	8.69	9.12
865	2.87	3.01	9.41	9.87
1000	3.11	3.27	10.20	10.73

P3® 412 Product Descriptions



CommScope's Parameter III® (P3®) product line is the industry standard by which all coaxial trunk and distribution cables are measured. P3 has been proven robust and reliable by years of successful installations.

P3 412 is optimized for use in MDU and feeder applications. Its small size, low attenuation and inherent strength has made it an industry standard.

AERIAL CONSTRUCTION		Cable Wt.	Shipping Wt.
Construction Code	Product Description	lbs/kft (kg/km)	lbs/kft (kg/km)
P3 412 CA	A solid aluminum tube is precision swaged onto a high compression, micro-cellular foam dielectric core. The core contains a fully bonded copper clad center conductor.	54 (80)	74 (110)
P3 412 JCA	A tough, black medium density polyethylene jacket is applied to the aluminum shield enhancing the cable's environmental resilience.	71 (106)	91 (135)
P3 412 JCAM109	For self-supporting aerial applications, an integrated messenger is added alongside the cable in a "figure 8" construction.	111 (165)	148 (220)

UNDERGROUND CONSTRUCTION		Cable Wt.	Shipping Wt.
Construction Code	Product Description	lbs/kft (kg/km)	lbs/kft (kg/km)
P3 412 JCASS	CommScope's Migra-Heal™ flooding compound is applied under the jacket of this design, making it suitable for direct burial. Migra-Heal™ floodant is designed to flow into damaged jacket areas, sealing this area and inhibiting corrosion.	74 (110)	94 (140)
P3 412 JACASS	For the harshest of underground environments. A corrugated chrome plated steel armor is available, applied longitudinally and with flooding compound between the armor and the inner jacket. The armor is bonded to the outer jacket and enhances cable longevity in underground applications.	175 (260)	216 (321)

P3® 500 Product Descriptions



CommScope's Parameter III® (P3®) product line is the industry standard by which all coaxial trunk and distribution cables are measured. P3 has been proven robust and reliable by years of successful installations.

P3 500 is optimized for use in broadband feeder plants. Its small size, low attenuation and inherent strength has made it an industry standard.

AERIAL CONSTRUCTION

Construction Code	Product Description	Cable Wt. lbs/kft (kg/km)	Shipping Wt. lbs/kft (kg/km)
P3 500 CA	A solid aluminum tube is precision swaged onto a high compression, micro-cellular foam dielectric core. The core contains a fully bonded copper clad center conductor.	72 (107)	95 (141)
P3 500 JCA	A tough, black medium density polyethylene jacket is applied to the aluminum shield enhancing the cable's environmental resilience.	93 (138)	117 (174)
P3 500 JCAM109	For self-supporting aerial applications, an integrated messenger is added alongside the cable in a "figure 8" construction.	134 (199)	179 (266)

UNDERGROUND CONSTRUCTION

Construction Code	Product Description	Cable Wt. lbs/kft (kg/km)	Shipping Wt. lbs/kft (kg/km)
P3 500 JCASS	CommScope's Migra-Heal™ flooding compound is applied under the jacket of this design, making it suitable for direct burial. Migra-Heal™ floodant is designed to flow into damaged jacket areas, sealing this area and inhibiting corrosion.	97 (144)	121 (180)
P3 500 JCASS CableGuard®	CommScope's patented CableGuard was developed to provide exceptional direct burial performance at a lower cost than armor. An outer jacket with compartmentalized cells provides excellent cut through and crush resistance.	138 (205)	189 (281)
P3 500 JACASS	For the harshest of underground environments. A corrugated chrome plated steel armor is available, applied longitudinally and with flooding compound between the armor and the inner jacket. The armor is bonded to the outer jacket and enhances cable longevity in underground applications.	201 (299)	258 (384)

RISER CONSTRUCTION

Construction Code	Product Description	Cable Wt. lbs/kft (kg/km)	Shipping Wt. lbs/kft (kg/km)
P3 500 JCAR	Copper clad aluminum center conductor; expanded polyethylene dielectric; continuous aluminum outer conductor; flame retardant polyethylene (PE) jacket. Tested and marked to comply with the National Electrical Code requirements for (CATVR) Riser Rating. CommScope's riser products are certified for use in indoor applications.	114 (170)	138 (205)

Physical Dimensions

Component	Inches	mm
Nominal Center Conductor Diameter	0.109	2.77
Nominal Diameter Over Dielectric	0.450	11.43
Nominal Diameter Over Outer Conductor	0.500	12.70
Nominal Outer Conductor Thickness	0.024	0.64
Jacket Versions		
Nominal Diameter Over Jacket	0.560	14.22
Nominal Jacket Wall Thickness	0.030	0.76
Nominal Diameter Over Flooded Jacket (JCASS)	0.570	14.48
Nominal Diameter Over CableGuard Jacket	0.750	19.07
Messenger Version		
Diameter of Steel Messenger	0.109	2.77
Armored Versions		
Nominal Diameter Over Corrugated Armor	0.640	16.13
Nominal Shield Thickness	0.008	0.20
Nominal Diameter Over Outer Jacket	0.720	18.16
Nominal Thickness of Outer Jacket	0.040	1.02

Mechanical Characteristics

Minimum Bending Radius:	Standard		Bonded	
(No Jacket)	6.5 in.	16.5 cm	4.0 in.	10.2 cm
(Jacketed)	6.0 in.	15.2 cm	3.5 in.	8.9 cm
(Armored)	8.5 in.	21.6 cm	6.0 in.	15.2 cm
Maximum Pulling Tension	300 lbs.		136 kg _f	
Minimum Breaking Strength of Messenger	(109)	1,800 lbs.	816 kg _f	

Electrical Characteristics

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

Maximum D.C. Resistance @ 68°F (20°C)

Copper Clad		
Inner Conductor	1.35 ohms/1000 ft.	4.40 ohms/km
Outer Conductor	0.37 ohms/1000 ft.	1.24 ohms/km
Loop	1.72 ohms/1000 ft.	5.64 ohms/km
Solid Copper		
Inner Conductor	0.83 ohms/1000 ft.	2.72 ohms/km
Outer Conductor	0.37 ohms/1000 ft.	1.24 ohms/km
Loop	1.20 ohms/1000 ft.	3.96 ohms/km

Specifications subject to change without notice.

Attenuation [@ 68° F. (20° C.)]

Frequency (MHz)	(dB/100 ft.)		(dB/100 m)	
	Nominal	Maximum	Nominal	Maximum
5	0.16	0.16	0.52	0.52
30	0.38	0.40	1.25	1.31
45	0.47	0.49	1.54	1.61
50	0.50	0.52	1.64	1.71
55 (Ch. 2)	0.52	0.54	1.71	1.77
83 (Ch. 6)	0.64	0.66	2.10	2.17
108	0.73	0.75	2.39	2.46
150	0.86	0.90	2.82	2.95
181	0.98	1.00	3.22	3.28
193	1.01	1.03	3.31	3.38
211 (Ch. 13)	1.06	1.09	3.48	3.58
220	1.08	1.11	3.54	3.64
250	1.15	1.20	3.77	3.94
270	1.19	1.24	3.90	4.07
300	1.26	1.31	4.13	4.30
325	1.31	1.37	4.30	4.49
350	1.36	1.43	4.46	4.69
375	1.42	1.47	4.66	4.82
400	1.47	1.53	4.82	5.02
425	1.52	1.57	4.99	5.15
450	1.56	1.63	5.12	5.35
500	1.65	1.73	5.41	5.67
550	1.75	1.82	5.74	5.97
600	1.83	1.91	6.00	6.27
750	2.04	2.16	6.69	7.09
865	2.20	2.34	7.22	7.68
1000	2.41	2.52	7.91	8.27

CommScope's Parameter III® (P3®) product line is the industry standard by which all coaxial trunk and distribution cables are measured. P3 has been proven robust and reliable by years of successful installations.

P3 565 is optimized for use in broadband feeder plants. A thinner aluminum shield contributes to lower cable weight, while a slightly larger diameter impacts cable attenuation.

AERIAL CONSTRUCTION		Cable Wt.	Shipping Wt.
Construction Code	Product Description	lbs/kft (kg/km)	lbs/kft (kg/km)
P3 565 JCA	A solid aluminum tube is precision swaged onto a high compression, micro-cellular foam dielectric core. The core contains a fully bonded copper clad center conductor. A tough, black medium density polyethylene jacket bonded to the aluminum shield enhancing the cable's environmental resilience.	112 (167)	133 (198)
P3 565 JCAM109	For self-supporting aerial applications, an integrated messenger is added alongside the cable in an "figure 8" construction.	144 (214)	205 (305)

UNDERGROUND CONSTRUCTION		Cable Wt.	Shipping Wt.
Construction Code	Product Description	lbs/kft (kg/km)	lbs/kft (kg/km)
P3 565 JCASS	CommScope's Migra-Heal™ flooding compound is applied under the jacket of this design, making it suitable for direct burial. Migra-Heal™ floodant is designed to flow into damaged jacket areas, sealing this area and inhibiting corrosion.	116 (173)	166 (247)

Physical Dimensions

Component	Inches	mm
Nominal Center Conductor Diameter	0.129	3.28
Nominal Diameter Over Dielectric	0.519	13.20
Nominal Diameter Over Outer Conductor	0.565	14.40
Nominal Outer Conductor Thickness	0.023	0.58
Nominal Diameter Over Jacket	0.625	15.90
Nominal Jacket Wall Thickness	0.030	0.59
Nominal Diameter Over Flooded Jacket (JCASS)	0.635	16.13
Messengered Versions		
Diameter of Steel Messenger	0.109	2.77

Mechanical Characteristics

Minimum Bending Radius:	Bonded	
(Jacketed)	5.0 in.	12.7 cm
Maximum Pulling Tension	350 lbs.	kg _f
Minimum Breaking Strength (109) of Messenger	1,800 lbs.	816 kg _f

Electrical Characteristics

Capacitance	15.3 ± 1.0 pf/ft	50 ± 3.0nf/km
Impedance	75 ohms	
Velocity of Propagation	89%	

Maximum D.C. Resistance @ 68°F (20°C)

Copper Clad		
Inner Conductor	0.96 ohms/1000 ft.	3.15 ohms/km
Outer Conductor	0.34 ohms/1000 ft.	1.12 ohms/km
Loop	1.30 ohms/1000 ft.	4.26 ohms/km

Specifications subject to change without notice.

Attenuation [@ 68° F. (20° C.)]

Frequency (MHz)	(dB/100 ft.)		(dB/100 m)	
	Nominal	Maximum	Nominal	Maximum
5	0.13	0.14	0.43	0.46
30	0.33	0.34	1.08	1.12
45	0.40	0.41	1.31	1.35
50	0.43	0.45	1.41	1.48
55 (Ch. 2)	0.46	0.47	1.51	1.54
83 (Ch. 6)	0.56	0.58	1.84	1.90
108	0.64	0.66	2.10	2.17
150	0.76	0.79	2.49	2.59
181	0.84	0.88	2.76	2.89
193	0.87	0.90	2.85	2.95
211 (Ch. 13)	0.91	0.95	2.98	3.12
220	0.93	0.98	3.05	3.22
250	0.99	1.03	3.25	3.38
270	1.03	1.07	3.38	3.51
300	1.09	1.13	3.58	3.71
325	1.13	1.18	3.71	3.87
350	1.18	1.23	3.87	4.04
375	1.22	1.27	4.00	4.17
400	1.27	1.32	4.17	4.33
425	1.31	1.37	4.30	4.49
450	1.35	1.40	4.43	4.59
500	1.43	1.49	4.69	4.89
550	1.50	1.56	4.92	5.12
600	1.58	1.64	5.18	5.38
750	1.78	1.85	5.84	6.07
865	1.93	2.00	6.33	6.56
1000	2.08	2.17	6.82	7.12

P3® 625 Product Descriptions



CommScope's Parameter III® (P3®) product line is the industry standard by which all coaxial trunk and distribution cables are measured. P3 has been proven robust and reliable by years of successful installations.

P3 625 is optimized for use in broadband feeder plants. Its small size, low attenuation and inherent strength has made it an industry standard.

AERIAL CONSTRUCTION		Cable Wt.	Shipping Wt.
Construction Code	Product Description	lbs/kft (kg/km)	lbs/kft (kg/km)
P3 625 CA	A solid aluminum tube is precision swaged onto a high compression, micro-cellular foam dielectric core. The core contains a fully bonded copper clad center conductor.	112 (167)	163 (243)
P3 625 JCA	A tough, black medium density polyethylene jacket is applied to the aluminum shield enhancing the cable's environmental resilience.	138 (205)	188 (280)
P3 625 JCAM109	A galvanized steel messenger is extruded along side the cable in a "figure 8" construction for self-supporting applications.	178 (265)	252 (375)

UNDERGROUND CONSTRUCTION		Cable Wt.	Shipping Wt.
Construction Code	Product Description	lbs/kft (kg/km)	lbs/kft (kg/km)
P3 625 JCASS	CommScope's Migra-Heal™ flooding compound is applied under the jacket of this design, making it suitable for direct burial. Migra-Heal™ floodant is designed to flow into damaged jacket areas, sealing this area and inhibiting corrosion.	145 (213)	121 (180)
P3 625 JCASS CableGuard®	CommScope's patented CableGuard was developed to provide exceptional direct burial performance at a lower cost than armor. An outer jacket with compartmentalized cells provides excellent cut through and crush resistance.	199 (296)	270 (402)
P3 625 JACASS	For the harshest of underground environments. A corrugated chrome plated steel armor is available, applied longitudinally and with flooding compound between the armor and the inner jacket. The armor is bonded to the outer jacket and enhances cable longevity in underground applications.	281 (408)	258 (384)

Physical Dimensions

Component	Inches	mm
Nominal Center Conductor Diameter	0.137	3.48
Nominal Diameter Over Dielectric	0.565	14.30
Nominal Diameter Over Outer Conductor	0.625	15.88
Nominal Outer Conductor Thickness	0.030	0.79
Jacket Versions		
Nominal Diameter Over Jacket	0.685	17.40
Nominal Jacket Wall Thickness	0.030	0.76
Nominal Diameter Over Flooded Jacket (JCASS)	0.695	17.65
Nominal Diameter Over CableGuard Jacket	0.875	22.24
Messenger Version		
Diameter of Steel Messenger	0.109	2.77
Armored Versions		
Nominal Diameter Over Corrugated Armor	0.770	19.18
Nominal Shield Thickness	0.008	0.20
Nominal Diameter Over Outer Jacket	0.850	21.21
Nominal Thickness of Outer Jacket	0.040	1.02

Mechanical Characteristics

Minimum Bending Radius:	Standard		Bonded	
(No Jacket)	7.5 in.	19.1 cm	5.0 in.	12.7 cm
(Jacketed)	7.0 in.	17.8 cm	4.5 in.	11.4 cm
(Armored)	9.5 in.	24.1 cm	7.0 in.	17.8 cm
Maximum Pulling Tension	475 lbs.		216 kg _f	
Minimum Breaking Strength of Messenger	(109)	1,800 lbs.	816 kg _f	

Electrical Characteristics

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

Maximum D.C. Resistance @ 68°F (20°C)

Copper Clad		
Inner Conductor	0.84 ohms/1000 ft.	2.76 ohms/km
Outer Conductor	0.26 ohms/1000 ft.	0.75 ohms/km
Loop	1.10 ohms/1000 ft.	3.51 ohms/km
Solid Copper		
Inner Conductor	0.56 ohms/1000 ft.	1.84 ohms/km
Outer Conductor	0.26 ohms/1000 ft.	0.75 ohms/km
Loop	0.82 ohms/1000 ft.	2.59 ohms/km

Specifications subject to change without notice.

Attenuation [@ 68° F. (20° C.)]

Frequency (MHz)	(dB/100 ft.)		(dB/100 m)	
	Nominal	Maximum	Nominal	Maximum
5	0.12	0.13	0.39	0.43
30	0.31	0.32	1.02	1.05
45	0.38	0.41	1.25	1.34
50	0.40	0.42	1.31	1.38
55 (Ch. 2)	0.42	0.46	1.38	1.51
83 (Ch. 6)	0.51	0.57	1.67	1.87
108	0.58	0.63	1.90	2.07
150	0.69	0.77	2.26	2.53
181	0.79	0.85	2.59	2.79
193	0.81	0.88	2.66	2.89
211 (Ch. 13)	0.85	0.92	2.79	3.02
220	0.87	0.94	2.85	3.08
250	0.92	1.00	3.02	3.28
270	0.96	1.02	3.15	3.35
300	1.02	1.08	3.36	3.54
325	1.05	1.13	3.44	3.71
350	1.09	1.18	3.58	3.87
375	1.14	1.22	3.74	4.00
400	1.18	1.27	3.87	4.17
425	1.22	1.32	4.00	4.33
450	1.26	1.35	4.15	4.43
500	1.32	1.43	4.33	4.69
550	1.41	1.50	4.63	4.92
600	1.48	1.58	4.87	5.18
750	1.66	1.78	5.46	5.84
865	1.77	1.93	5.81	6.33
1000	1.95	2.07	6.40	6.79

P3® 700 Product Descriptions



CommScope's Parameter III® (P3®) product line is the industry standard by which all coaxial trunk and distribution cables are measured. P3 has been proven robust and reliable by years of successful installations.

P3 700 is optimized for use in broadband distribution plants. A thinner aluminum shield contributes to lower cable weight, while a slightly larger diameter impacts cable attenuation.

AERIAL CONSTRUCTION		Cable Wt. lbs/kft (kg/km)	Shipping Wt. lbs/kft (kg/km)
Construction Code	Product Description		
P3 700 JCA	A solid aluminum tube is precision swaged onto a high compression, micro-cellular foam dielectric core. The core contains a fully bonded copper clad center conductor. A tough, black medium density polyethylene jacket bonded to the aluminum shield, enhancing the cable's environmental resilience.	160 (238)	212 (315)
P3 700 JCAM188	For self-supporting aerial applications, an integrated messenger is added alongside the cable in a "figure 8" construction.	275 (409)	327 (487)

UNDERGROUND CONSTRUCTION		Cable Wt. lbs/kft (kg/km)	Shipping Wt. lbs/kft (kg/km)
Construction Code	Product Description		
P3 700 JCASS	CommScope's Migra-Heal™ flooding compound is applied under the jacket of this design, making it suitable for direct burial. Migra-Heal™ floodant is designed to flow into damaged jacket areas, sealing this area and inhibiting corrosion.	165 (246)	215 (320)
P3 700 JCASS CableGuard®	CommScope's patented CableGuard was developed to provide exceptional direct burial performance at a lower cost than armor. An outer jacket with compartmentalized cells provides excellent cut through and crush resistance.	205 (305)	270 (402)

Physical Dimensions

Component	Inches	mm
Nominal Center Conductor Diameter	0.163	4.14
Nominal Diameter Over Dielectric	0.653	16.64
Nominal Diameter Over Outer Conductor	0.703	17.86
Nominal Outer Conductor Thickness	0.025	0.63
Nominal Diameter Over Jacket	0.765	19.40
Nominal Jacket Wall Thickness	0.031	0.79
Nominal Diameter Over Flooded Jacket (JCASS)	0.775	19.69
Nominal Diameter Over CableGuard	0.985	25.02
Messenger Version		
Diameter of Steel Messenger	0.188	4.78

Mechanical Characteristics

Minimum Bending Radius:	Bonded	
(Jacketed)	6.5 in.	16.5 cm
Maximum Pulling Tension	500 lbs.	227 kg _f
Minimum Breaking Strength of Messenger	(188) 3,900 lbs.	1,769 kg _f

Electrical Characteristics

Capacitance	15.3±1.0 pf/ft	50±3.0 nf/km
Impedance	75±2 ohms	
Velocity of Propagation	89%	

Maximum D.C. Resistance @ 68°F (20°C)

Copper Clad		
Inner Conductor	0.59 ohms/1000 ft.	1.93 ohms/km
Outer Conductor	0.25 ohms/1000 ft.	0.82 ohms/km
Loop	0.84 ohms/1000 ft.	2.75 ohms/km

Specifications subject to change without notice.

Attenuation [@ 68° F. (20° C.)]

Frequency (MHz)	(dB/100 ft.)		(dB/100 m)	
	Nominal	Maximum	Nominal	Maximum
5	0.11	0.11	0.36	0.36
30	0.26	0.27	0.85	0.85
45	0.32	0.33	1.05	1.05
50	0.34	0.35	1.12	1.12
55 (Ch. 2)	0.35	0.36	1.15	1.15
83 (Ch. 6)	0.44	0.45	1.44	1.44
108	0.51	0.52	1.67	1.67
150	0.60	0.61	1.97	1.97
181	0.67	0.68	2.20	2.20
193	0.69	0.70	2.26	2.26
211 (Ch. 13)	0.72	0.73	2.36	2.36
220	0.74	0.76	2.43	2.43
250	0.79	0.81	2.59	2.59
270	0.82	0.85	2.69	2.69
300	0.87	0.90	2.85	2.85
325	0.91	0.94	2.99	2.99
350	0.95	0.98	3.12	3.12
375	0.98	1.02	3.22	3.22
400	1.02	1.05	3.35	3.35
425	1.05	1.09	3.44	3.44
450	1.08	1.12	3.54	3.54
500	1.15	1.19	3.77	3.77
550	1.21	1.25	3.97	3.97
600	1.27	1.31	4.17	4.17
750	1.44	1.49	4.72	4.72
865	1.57	1.62	5.15	5.15
1000	1.69	1.75	5.54	5.54

P3® 750 Product Descriptions



CommScope's Parameter III® (P3®) product line is the industry standard by which all coaxial trunk and distribution cables are measured. P3 has been proven robust and reliable by years of successful installations.

P3 750 is optimized for use in broadband distribution plants. Its low attenuation and inherent strength has made it an industry standard.

AERIAL CONSTRUCTION		Cable Wt. lbs/kft (kg/km)	Shipping Wt. lbs/kft (kg/km)
Construction Code	Product Description		
P3 750 CA	A solid aluminum tube is precision swaged onto a high compression, micro-cellular foam dielectric core. The core contains a fully bonded copper clad center conductor.	161 (240)	228 (339)
P3 750 JCA	A tough, black medium density polyethylene jacket is applied to the aluminum shield, enhancing the cable's environmental resilience.	197 (293)	263 (191)
P3 750 JCAM188 P3 750 JCAM250	For self-supporting aerial applications, an integrated messenger is added alongside the cable in a "figure 8" construction.	276 (411) 345 (513)	345 (513) 407 (606)

UNDERGROUND CONSTRUCTION		Cable Wt. lbs/kft (kg/km)	Shipping Wt. lbs/kft (kg/km)
Construction Code	Product Description		
P3 750 JCASS	CommScope's Migra-Heal™ flooding compound is applied under the jacket of this design, making it suitable for direct burial. Migra-Heal™ floodant is designed to flow into damaged jacket areas, sealing this area and inhibiting corrosion.	202 (301)	268 (399)
P3 750 JCASS CableGuard®	CommScope's patented CableGuard was developed to provide exceptional direct burial performance at a lower cost than armor. An outer jacket with compartmentalized cells provides excellent cut through and crush resistance.	248 (369)	326 (485)
P3 750 JACASS	For the harshest of underground environments. A corrugated chrome plated steel armor is available, applied longitudinally and with flooding compound between the armor and the inner jacket. The armor is bonded to the outer jacket and enhances cable longevity in burial applications.	347 (516)	436 (649)

Physical Dimensions

Component	Inches	mm
Nominal Center Conductor Diameter	0.167	4.24
Nominal Diameter Over Dielectric	0.680	17.27
Nominal Diameter Over Outer Conductor	0.750	19.05
Nominal Outer Conductor Thickness	0.035	0.91
Jacket Versions		
Nominal Diameter Over Jacket	0.820	20.83
Nominal Jacket Wall Thickness	0.035	0.90
Nominal Diameter Over Flooded Jacket (JCASS)	0.830	21.08
Nominal Diameter Over CableGuard Jacket	1.055	26.82
Messenger Version		
Diameter of Steel Messenger	0.188 0.250	4.78 6.35
Armored Versions		
Nominal Diameter Over Corrugated Armor	0.900	23.37
Nominal Shield Thickness	0.010	0.20
Nominal Diameter Over Outer Jacket	0.980	25.40
Nominal Thickness of Outer Jacket	0.040	1.02

Mechanical Characteristics

Minimum Bending Radius:	Standard	Bonded
(No Jacket)	9.0 in. 22.9 cm	7.0 in. 17.8 cm
(Jacketed)	8.0 in. 20.3 cm	6.0 in. 15.2 cm
(Armored)	10.5 in. 26.7 cm	9.0 in. 21.6 cm
Maximum Pulling Tension	675 lbs.	306 kg _f
Minimum Breaking Strength of Messenger	(188) 3,900 lbs. (250) 6,650 lbs.	1,769 kg _f 3,016 kg _f

Electrical Characteristics

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

Maximum D.C. Resistance @ 68°F (20°C)

Copper Clad		
Inner Conductor	0.57 ohms/1000 ft.	1.87 ohms/km
Outer Conductor	0.19 ohms/1000 ft.	0.68 ohms/km
Loop	0.76 ohms/1000 ft.	2.55 ohms/km
Solid Copper		
Inner Conductor	0.37 ohms/1000 ft.	1.21 ohms/km
Outer Conductor	0.19 ohms/1000 ft.	0.62 ohms/km
Loop	0.56 ohms/1000 ft.	1.83 ohms/km

Specifications subject to change without notice.

Attenuation [@ 68° F. (20° C.)]

Frequency (MHz)	(dB/100 ft.)		(dB/100 m)	
	Nominal	Maximum	Nominal	Maximum
5	0.10	0.11	0.33	0.36
30	0.25	0.26	0.82	0.85
45	0.31	0.33	1.02	1.08
50	0.33	0.35	1.08	1.15
55 (Ch. 2)	0.35	0.37	1.15	1.21
83 (Ch. 6)	0.42	0.46	1.38	1.51
108	0.48	0.52	1.57	1.71
150	0.57	0.62	1.87	2.03
181	0.66	0.68	2.17	2.23
193	0.68	0.71	2.23	2.33
211 (Ch. 13)	0.71	0.74	2.33	2.43
220	0.72	0.76	2.36	2.49
250	0.77	0.81	2.53	2.66
270	0.80	0.84	2.62	2.76
300	0.85	0.89	2.79	2.92
325	0.88	0.93	2.89	3.05
350	0.91	0.97	2.99	3.18
375	0.96	1.01	3.15	3.31
400	0.99	1.05	3.25	3.44
425	1.02	1.08	3.35	3.54
450	1.06	1.12	3.44	3.67
500	1.11	1.18	3.64	3.87
550	1.19	1.24	3.90	4.07
600	1.23	1.31	4.05	4.30
750	1.38	1.48	4.54	4.86
865	1.49	1.61	4.89	5.28
1000	1.62	1.74	5.33	5.71

P3® 840 Product Descriptions



CommScope's Parameter III® (P3®) product line is the industry standard by which all coaxial trunk and distribution cables are measured. P3 has been proven robust and reliable by years of successful installations.

P3 840 has been designed for use in broadband trunk & distribution plants. A thinner aluminum shield contributes to lower cable weight, while a slightly larger diameter impacts cable attenuation.

AERIAL CONSTRUCTION		Cable Wt.	Shipping Wt.
Construction Code	Product Description	lbs/kft (kg/km)	lbs/kft (kg/km)
P3 840 JCA	A solid aluminum tube is precision swaged onto a high compression, micro-cellular foam dielectric core. The core contains a fully bonded copper clad center conductor. A tough, black medium density polyethylene jacket bonded to the aluminum shield, enhancing the cable's environmental resilience.	225 (335)	283 (421)
P3 840 JCAM188	For self-supporting aerial applications, an integrated messenger is added alongside the cable in a "figure 8" construction.	301 (448)	408 (607)

UNDERGROUND CONSTRUCTION		Cable Wt.	Shipping Wt.
Construction Code	Product Description	lbs/kft (kg/km)	lbs/kft (kg/km)
P3 840 JCASS	CommScope's Migra-Heal™ flooding compound is applied under the jacket of this design, making it suitable for direct burial. Migra-Heal™ floodant is designed to flow into damaged jacket areas, sealing this area and inhibiting corrosion.	233 (347)	292 (435)

P3® 840 Product Specifications



Physical Dimensions

Component	Inches	mm
Nominal Center Conductor Diameter	0.194	4.93
Nominal Diameter Over Dielectric	0.780	19.81
Nominal Diameter Over Outer Conductor	0.840	21.34
Nominal Outer Conductor Thickness	0.030	0.76
Nominal Diameter Over Jacket	0.910	23.11
Nominal Jacket Wall Thickness	0.035	0.89
Nominal Diameter Over Flooded Jacket (JCASS)	0.920	23.37
Messenger Version		
Diameter of Steel Messenger	0.188	4.78

Mechanical Characteristics

Minimum Bending Radius:	Bonded	
(Jacketed)	7.5 in.	19.0 cm
Maximum Pulling Tension	700 lbs.	318 kg _f
Minimum Breaking Strength (188) of Messenger	3,900 lbs.	1,769 kg _f

Electrical Characteristics

Capacitance	15.3 ± 1.0 pF/ft	50 ± 3.0 nF/km
Impedance	75 ± 2 ohms	
Velocity of Propagation	89%	

Maximum D.C. Resistance @ 68°F (20°C)

Copper Clad		
Inner Conductor	0.43 ohms/1000 ft.	1.40 ohms/km
Outer Conductor	0.17 ohms/1000 ft.	0.57 ohms/km
Loop	0.60 ohms/1000 ft.	1.97 ohms/km

Specifications subject to change without notice.

Attenuation [@ 68° F. (20° C.)]

Frequency (MHz)	(dB/100 ft.)		(dB/100 m)	
	Nominal	Maximum	Nominal	Maximum
5	0.09	0.09	0.30	0.30
30	0.22	0.23	0.72	0.75
45	0.27	0.28	0.89	0.92
50	0.29	0.30	0.95	0.98
55 (Ch. 2)	0.31	0.32	1.02	1.05
83 (Ch. 6)	0.38	0.40	1.25	1.31
108	0.43	0.45	1.41	1.48
150	0.53	0.54	1.74	1.77
181	0.58	0.60	1.90	1.97
193	0.60	0.62	1.97	2.03
211 (Ch. 13)	0.63	0.65	2.07	2.13
220	0.64	0.66	2.10	2.17
250	0.68	0.70	2.23	2.30
270	0.71	0.73	2.33	2.40
300	0.75	0.77	2.46	2.53
325	0.79	0.81	2.59	2.66
350	0.82	0.84	2.69	2.76
375	0.85	0.88	2.79	2.89
400	0.88	0.91	2.89	2.99
425	0.91	0.94	2.99	3.08
450	0.94	0.97	3.08	3.18
500	1.00	1.03	3.28	3.38
550	1.05	1.09	3.44	3.58
600	1.11	1.14	3.64	3.74
750	1.26	1.30	4.13	4.27
865	1.39	1.42	4.56	4.66
1000	1.49	1.53	4.89	5.02

P3® 875 Product Descriptions



CommScope's Parameter III® (P3®) product line is the industry standard by which all coaxial trunk and distribution cables are measured. P3 has been proven robust and reliable by years of successful installations.

P3 875 is optimized for use in broadband trunk & distribution plants. Its ultra low attenuation and inherent strength has made it an industry standard.

AERIAL CONSTRUCTION		Cable Wt. lbs/kft (kg/km)	Shipping Wt. lbs/kft (kg/km)
Construction Code	Product Description		
P3 875 CA	A solid aluminum tube is precision swaged onto a high compression, micro-cellular foam dielectric core. The core contains a fully bonded copper clad center conductor.	213 (317)	300 (446)
P3 875 JCA	A tough, black medium density polyethylene jacket is applied to the aluminum shield, enhancing the cable's environmental resilience.	254 (378)	341 (507)
P3 875 JCAM250	For self-supporting aerial applications, an integrated messenger is added alongside the cable in a "figure 8" construction.	369 (549)	482 (717)

UNDERGROUND CONSTRUCTION		Cable Wt. lbs/kft (kg/km)	Shipping Wt. lbs/kft (kg/km)
Construction Code	Product Description		
P3 875 JCASS	CommScope's Migra-Heal™ flooding compound is applied under the jacket of this design, making it suitable for direct burial. Migra-Heal™ floodant is designed to flow into damaged jacket areas, sealing this area and inhibiting corrosion.	262 (390)	347 (516)
P3 875 JCASS CableGuard®	CommScope's patented CableGuard was developed to provide exceptional direct burial performance at a lower cost than armor. An outer jacket with compartmentalized cells provides excellent cut through and crush resistance.	308 (458)	421 (626)
P3 875 JACASS	For the harshest of underground environments. A corrugated chrome plated steel armor is available, applied longitudinally and with flooding compound between the armor and the inner jacket. The armor is bonded to the outer jacket and enhances cable longevity in burial applications.	427 (635)	540 (804)

Physical Dimensions

Component	Inches	mm
Nominal Center Conductor Diameter	0.194	4.93
Nominal Diameter Over Dielectric	0.797	20.24
Nominal Diameter Over Outer Conductor	0.875	22.23
Nominal Outer Conductor Thickness	0.039	0.99
Jacket Versions		
Nominal Diameter Over Jacket	0.945	24.00
Nominal Jacket Wall Thickness	0.035	0.90
Nominal Diameter Over Flooded Jacket (JCASS)	0.955	24.26
Nominal Diameter Over CableGuard Jacket	1.200	30.48
Messenger Version		
Diameter of Steel Messenger	0.250	6.35
Armored Versions		
Nominal Diameter Over Corrugated Armor	1.030	25.83
Nominal Shield Thickness	0.010	0.20
Nominal Diameter Over Outer Jacket	1.110	27.86
Nominal Thickness of Outer Jacket	0.040	1.02

Mechanical Characteristics

Minimum Bending Radius:	Standard		Bonded	
(No Jacket)	10.0 in.	25.4 cm	8.5 in.	20.3 cm
(Jacketed)	9.0 in.	22.9 cm	7.0 in.	17.8 cm
(Armored)	11.5 in.	29.2 cm	10.0 in.	25.4 cm
Maximum Pulling Tension	875 lbs.		397 kg _f	
Minimum Breaking Strength of Messenger	(250)	6,650 lbs.	3,016 kg _f	

Electrical Characteristics

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

Maximum D.C. Resistance @ 68°F (20°C)

Copper Clad		
Inner Conductor	0.42 ohms/1000 ft.	1.38 ohms/km
Outer Conductor	0.13 ohms/1000 ft.	0.43 ohms/km
Loop	0.55 ohms/1000 ft.	1.81 ohms/km
Solid Copper		
Inner Conductor	0.28 ohms/1000 ft.	0.92 ohms/km
Outer Conductor	0.13 ohms/1000 ft.	0.43 ohms/km
Loop	0.41 ohms/1000 ft.	1.35 ohms/km

Attenuation [@ 68° F. (20° C.)]

Frequency (MHz)	(dB/100 ft.)		(dB/100 m)	
	Nominal	Maximum	Nominal	Maximum
5	0.09	0.09	0.30	0.30
30	0.22	0.23	0.72	0.75
45	0.27	0.28	0.89	0.92
50	0.28	0.30	0.92	0.98
55 (Ch. 2)	0.29	0.33	0.96	1.08
83 (Ch. 6)	0.36	0.41	1.18	1.35
108	0.41	0.45	1.35	1.48
150	0.48	0.55	1.57	1.80
181	0.57	0.60	1.87	1.97
193	0.58	0.62	1.90	2.03
211 (Ch. 13)	0.61	0.66	2.00	2.17
220	0.62	0.67	2.03	2.20
250	0.67	0.72	2.20	2.36
270	0.69	0.73	2.26	2.39
300	0.73	0.78	2.39	2.56
325	0.76	0.81	2.49	2.66
350	0.79	0.84	2.59	2.76
375	0.83	0.88	2.72	2.89
400	0.86	0.91	2.82	2.99
425	0.88	0.95	2.89	3.12
450	0.91	0.97	2.98	3.18
500	0.96	1.03	3.15	3.38
550	1.03	1.08	3.38	3.54
600	1.08	1.14	3.54	3.74
750	1.21	1.29	3.97	4.23
865	1.30	1.41	4.27	4.63
1000	1.42	1.53	4.67	5.02

Specifications subject to change without notice.

P3® 1000 Product Descriptions



CommScope's Parameter III® (P3®) product line is the industry standard by which all coaxial trunk and distribution cables are measured. P3 has been proven robust and reliable by years of successful installations.

P3 1000 is optimized for use in broadband trunk plants. Its ultra low attenuation and inherent strength has made it an industry standard.

AERIAL CONSTRUCTION		Cable Wt. lbs/kft (kg/km)	Shipping Wt. lbs/kft (kg/km)
Construction Code	Product Description		
P3 1000 CA	A solid aluminum tube is precision swaged onto a high compression, micro-cellular foam dielectric core. The core contains a fully bonded copper clad center conductor.	308 (458)	435 (647)
P3 1000 JCA	A tough, black medium density polyethylene jacket is applied to the aluminum shield, enhancing the cable's environmental resilience.	362 (539)	489 (728)
P3 1000 JCAM250	For self-supporting aerial applications, an integrated messenger is added alongside the cable in a "figure 8" construction.	477 (409)	615 (915)

UNDERGROUND CONSTRUCTION		Cable Wt. lbs/kft (kg/km)	Shipping Wt. lbs/kft (kg/km)
Construction Code	Product Description		
P3 1000 JCASS	CommScope's Migra-Heal™ flooding compound is applied under the jacket of this design, making it suitable for direct burial. Migra-Heal™ floodant is designed to flow into damaged jacket areas, sealing this area and inhibiting corrosion.	371 (552)	496 (738)
P3 1000 JACASS	For the harshest of underground environments. A corrugated chrome plated steel armor is available, applied longitudinally and with flooding compound between the armor and the inner jacket. The armor is bonded to the outer jacket and enhances cable longevity in burial applications.	573 (853)	708 (1054)

Physical Dimensions

Component	Inches	mm
Nominal Center Conductor Diameter	0.220	5.59
Nominal Diameter Over Dielectric	0.890	22.61
Nominal Diameter Over Outer Conductor	1.000	25.40
Nominal Outer Conductor Thickness	0.055	1.40
Jacket Versions		
Nominal Diameter Over Jacket	1.080	27.43
Nominal Jacket Wall Thickness	0.040	1.02
Nominal Diameter Over Flooded Jacket (JCASS)	1.09	27.69
Messenger Version		
Diameter of Steel Messenger	0.250	6.35
Armored Versions		
Nominal Diameter Over Corrugated Armor	1.160	29.27
Nominal Shield Thickness	0.010	0.20
Nominal Diameter Over Outer Jacket	1.240	32.00
Nominal Thickness of Outer Jacket	0.040	1.02

Mechanical Characteristics

Minimum Bending Radius:	Standard	Bonded
(No Jacket)	11.0 in. 27.9 cm	9.5 in. 24.1 cm
(Jacketed)	10.0 in. 25.4 cm	8.0 in. 20.3 cm
(Armored)	12.5 in. 31.8 cm	10.5 in. 26.7 cm
Maximum Pulling Tension	1,300 lbs.	590 kg _f
Minimum Breaking Strength of Messenger	(250) 6,650 lbs.	3,016 kg _f

Electrical Characteristics

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

Maximum D.C. Resistance @ 68°F (20°C)

Copper Clad

Inner Conductor	0.32 ohms/1000 ft.	1.05 ohms/km
Outer Conductor	0.08 ohms/1000 ft.	0.26 ohms/km
Loop	0.40 ohms/1000 ft.	1.31 ohms/km

Specifications subject to change without notice.

Attenuation [@ 68° F. (20° C.)]

Frequency (MHz)	(dB/100 ft.) Maximum	(dB/100 m) Maximum
5	0.08	0.26
30	0.21	0.69
45	0.25	0.82
50	0.27	0.89
55 (Ch. 2)	0.31	1.02
83 (Ch. 6)	0.39	1.28
108	0.41	1.35
150	0.52	1.71
181	0.57	1.87
193	0.58	1.90
211 (Ch. 13)	0.59	1.94
220	0.62	2.03
250	0.65	2.13
270	0.67	2.20
300	0.72	2.36
325	0.75	2.46
350	0.78	2.56
375	0.81	2.66
400	0.84	2.76
425	0.87	2.85
450	0.90	2.95
500	0.96	3.15
550	1.01	3.31
600	1.06	3.48
750	1.21	3.97
865	1.34	4.40
1000	1.44	4.72

P3 500 JCAP



Copper clad aluminum center conductor dielectric of foamed Teflon® fluorinated ethylene propylene; solid aluminum sheath; solid Kynar® PVDF jacket.

Physical Dimensions

Component	Inches	mm
Nominal Center Conductor Diameter	0.109	2.77
Nominal Diameter Over Dielectric	0.450	11.43
Nominal Diameter Over Outer Conductor	0.500	12.70
Nominal Outer Conductor Thickness	0.025	0.64
Nominal Diameter Over Jacket	0.524	13.31
Nominal Jacket Wall Thickness	0.012	0.30

Mechanical Characteristics

Minimum Bending Radius	5.0 in.	12.7 cm
Maximum Pulling Tension	200 lbs.	91 kgf

Electrical Characteristics

Capacitance	16.4 ± 1.0 pf/ft	54 ± 3.0 nf/km
Impedance	75 ± 2 ohms	
Velocity of Propagation	86%	

Maximum D.C. Resistance @ 68°F (20°C)

Copper Clad

Inner Conductor	1.32 ohms/1000 ft.	4.32 ohms/km
Outer Conductor	0.40 ohms/1000 ft.	1.32 ohms/km
Loop	1.72 ohms/1000 ft.	5.64 ohms/km

Attenuation [@ 68° F. (20° C.)]

Frequency (MHz)	(dB/100 ft.) Maximum	(dB/100 m) Maximum
5	0.17	0.56
30	0.44	1.44
45	0.51	1.67
50	0.58	1.90
55 (Ch. 2)	0.61	2.00
83 (Ch. 6)	0.78	2.56
108	0.91	2.98
150	1.10	3.61
181	1.24	4.07
193	1.28	4.20
211 (Ch. 13)	1.35	4.43
220	1.38	4.53
250	1.50	4.92
270	1.57	5.15
300	1.67	5.48
325	1.78	5.84
350	1.85	6.07
375	1.94	6.36
400	2.02	6.63
425	2.10	6.89
450	2.16	7.08
500	2.32	7.61
550	2.46	8.07
600	2.60	8.53
750	3.43	11.25
865	3.86	12.66
1000	4.31	14.14

Specifications subject to change without notice.

PF 625 JCA



CommScope developed Power Feeder™ cable for delivery of centralized power in today's networks. Coaxial familiarity and the lowest DC Loop Resistance available in a convenient feeder cable size makes Power Feeder™ the choice for power delivery.

Copper clad aluminum center conductor; expanded polyethylene dielectric; continuous aluminum outer conductor; polyethylene (PE) jacket, tracer.

Physical Dimensions

Component	Inches	mm
Nominal Center Conductor Diameter	0.325	8.26
Nominal Diameter Over Dielectric	0.515	13.08
Nominal Diameter Over Outer Conductor	0.625	15.88
Nominal Diameter Over Jacket	0.685	17.40
Nominal Diameter Over Flooded Jacket (JCASS)	0.695	17.65
Nominal Jacket Wall Thickness	0.030	0.76

Mechanical Characteristics

Minimum Bending Radius		
(Jacketed)	9.0 in.	22.9 cm
Maximum Pulling Tension	800 lbs.	367.9 kg _f

Weight

284 lbs. per 1000 feet

Maximum D.C. Resistance @ 68°F (20°C)

Copper Clad

Inner Conductor	0.155 ohms/1000 ft.	0.509 ohms/km
Outer Conductor	0.135 ohms/1000 ft.	0.443 ohms/km
Loop	0.290 ohms/1000 ft.	0.952 ohms/km

Specifications subject to change without notice.

Description	Standard Reel Length (feet)	Reel Size (Inches)	Reel Weight (lbs.)
MDU 320 JCA	2,400	35 x 16 x 18	60
MDU 320 JCAR	2,400	35 x 16 x 18	60
QR 540 JCA	3,700	42 x 24 x 24	94
QR 540 JCASS	3,700	42 x 24 x 24	94
QR 540 JACASS	3,700	50 x 24 x 24	166
QR 540 JCAM-109	3,700	50 x 24 x 24	166
QR 715 JCA	3,000	50 x 24 x 20	182
QR 715 JCASS	3,000	50 x 24 x 20	182
QR 715 JACASS	3,000	54 x 30 x 24	211
QR 715 JCAM-188	3,000	54 x 24 x 24	208
QR 860 JCA	2,700	54 x 24 x 24	208
QR 860 JCASS	2,700	54 x 24 x 24	208
QR 860 JACASS	2,700	61 x 30 x 24	256
QR 860 JCAM-188	2,700	61 x 30 x 30	256
QR 1125 JCA	3,000	61 x 30 x 30	256
QR 1125 JCASS	3,000	61 x 30 x 30	256
QR 1125 JACASS	3,000	72 x 40 x 38	375

Reel Size Example

50" x 24" x 24"

50 = Flange Diameter (inches)
 24 = Drum Diameter (inches)
 24 = Traverse Width (inches)

NOTE:

1. An additional 4.0 inches should be added to the traverse width to obtain the total width of the trunk and distribution reel size. Example: 50" x 24" X 24", total width will be 28" (50 x 24 x 28).
2. All T&D reels have an arbor hole diameter of 3¹/₈".

Description	Standard Reel Length (feet)	Reel Size (Inches)	Reel Weight (lbs.)
P3 412 CA	3,000	35 x 16 x 18	60
P3 412 JCA	3,000	35 x 16 x 18	60
P3 412 JCASS	3,000	35 x 16 x 18	60
P3 412 JACASS	3,000	42 x 24 x 24	94
P3 412 JCAM 109	3,000	42 x 18 x 16.5	94
P3 500 CA	2,400	35 x 16 x 18	60
P3 500 JCA	2,400	35 x 16 x 18	60
P3 500 JCASS	2,400	35 x 16 x 18	60
P3 500 JACASS	2,400	42 x 24 x 24	94
P3 500 JCAM 109	2,400	42 x 18 x 16.5	94
P3 500 JCAM 134	2,400	42 x 18 x 16.5	94
P3 500 JCASS CG	2,400	42 x 24 x 24	94
P3 565 CA	2,450	42 x 18 x 16.5	94
P3 565 JCA	2,450	42 x 18 x 16.5	94
P3 565 JCASS	2,450	42 x 18 x 16.5	94
P3 625 CA	2,400	42 x 18 x 16.5	94
P3 625 JCA	2,400	42 x 18 x 16.5	94
P3 625 JCASS	2,400	42 x 18 x 16.5	94
P3 625 JACASS	2,400	50 x 24 x 24	166
P3 625 JCAM 109	2,400	50 x 24 x 24	166
P3 625 JCASS CG	2,400	50 x 24 x 24	166
P3 700 CA	2,500	42 x 18 x 24	90
P3 700 JCA	2,500	42 x 18 x 24	90
P3 700 JCASS	2,500	42 x 18 x 24	90
P3 750 CA	2,500	50 x 24 x 24	166
P3 750 JCA	2,500	50 x 24 x 24	166
P3 750 JCASS	2,500	50 x 24 x 24	166
P3 750 JACASS	2,500	54 x 24 x 24	208
P3 750 JCAM 188	2,500	54 x 24 x 24	208
P3 750 JCAM 250	2,500	54 x 30 x 30	300
P3 750 JCASS CG	2,500	54 x 24 x 24	166
P3 840 CA	2,400	50 x 24 x 24	166
P3 840 JCA	2,450	50 x 24 x 24	166
P3 840 JCASS	2,450	50 x 24 x 24	166
P3 875 CA	2,500	55 x 30 x 24	211
P3 875 JCA	2,500	55 x 30 x 24	211
P3 875 JCASS	2,500	55 x 30 x 24	211
P3 875 JACASS	2,500	63 x 40 x 26	304
P3 1000 CA	2,400	63 x 40 x 26	304
P3 1000 JCA	2,400	63 x 40 x 26	304
P3 1000 JCASS	2,400	63 x 40 x 26	304
P3 1000 JACASS	2,400	65 x 42 x 30	374