



Introduction

ALANTEK COMMUNICATIONS

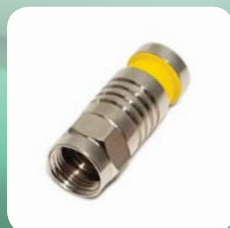
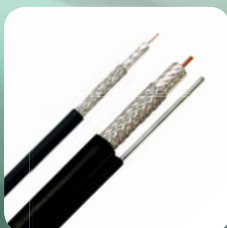
Founded in 1998 and headquartered in the USA, is a professional manufacturer of Broadband Coaxial Cables & Accessories. Its strength in engineering and manufacturing is reflected in a large family of high quality, high performance, and very competitive products that are sold worldwide.

Our main product line are Broadband Coaxial Cables for RG59, RG6, RG11 and Trunk Cables, Splitters, Couplers, Taps, Amplifiers and Connectors.

MISSION STATEMENT

To offer our customer the highest quality Broadband products at a competitive price with efficient Delivery and Inventory.

Our products are continually upgraded and enhanced to serve the dynamic broadband markets.



Broadband Cabling Solutions



FEATURES AND ADVANTAGES OF BROADBAND CABLES

Coaxial Drop Cable includes RG59, RG6, and RG11 three series, with excellent electrical performance, mainly applied to CATV network distribution. Frequency range from 5 MHz to 2000 MHz, providing reliable transmission and anti-noise effects for double way network.

Copper Conductor consist of low or non-oxygen copper, manufactured by high quality equipment.

Alantek realized high physical foaming with nitrogen and achieved advanced international standards. Foaming rate as high as 80% without polar residual, with excellent transmission property. Closed cell in dielectric, preventing penetration of water and gas, with stable property and long service life.

Aluminum foil for shielding is a key material in cable. The aluminum foil in Alantek RG series cable maintain consistence quality standards.

Our bonded aluminum foil achieves advanced level internationally, which guarantees high shielding property and long service life.

The braid is also important to cable property, either aluminum or tinned copper wire should keep close with aluminum foil, without poking out into jacket. Alantek RG series cable utilizes high speed braider, completely fulfilling the demands of cable construction and cable property.

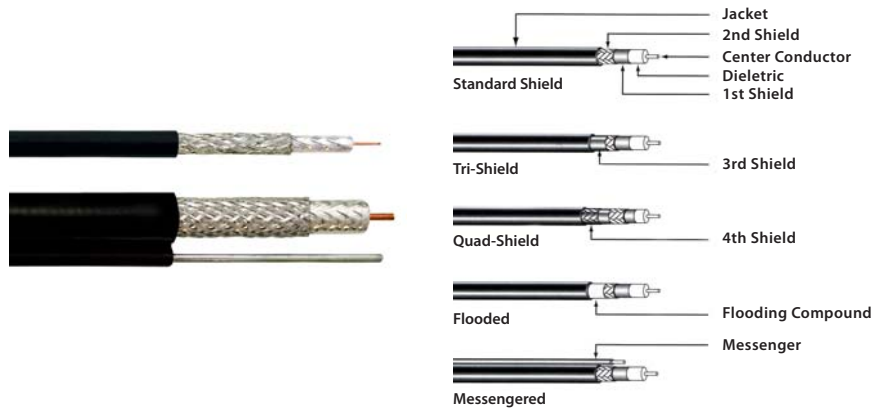
A special kind of preservative agent which is used in flooding compound, spread between outer conductor and jacket, shows anti-corrosion, humid resistant, and self-healing protective layer effects.

Cable jacket utilizes different kinds of material according to actual demands. Alantek RG series cable has passed serious test including high/low temperature test, ultraviolet test, hot wet test, fire retardant test, salt fog test and etc.

STANDARD CONSTRUCTION

20 AWG, 0.032 in. (0.81 mm) Copper Covered Steel Center Conductor; Gas Expanded Polyethylene Dielectric; Inner Shield Aluminum-Polypropylene-Aluminum laminated tape with overlap bonded to dielectric; Outer Shield of 34 AWG Aluminum wire braid shield; Outer Black Jacket of Polyvinylchloride (PVC). Nominal O.D 0.24 in. (6.10 mm).

Other options are available upon request.



ATTENUATION AT 20°C

FREQUENCY (MHz)	MAXIMUM (dB/100ft)	MAXIMUM (dB/100m)
5	0.86	2.82
55	2.05	6.73
211	3.80	12.47
250	4.10	13.45
350	4.80	15.75
400	5.10	16.73
450	5.40	17.72
500	5.70	18.70
550	5.95	19.52
600	6.20	20.34
750	6.97	22.87
865	7.52	24.67
1000	8.12	26.64
1200	8.97	29.40
1450	9.88	32.41
1750	10.99	36.04
2000	0.86	2.82

MECHANICAL CHARACTERISTICS

Minimum Breaking Strength of Messenger	Ø0.051 in.	180 lbs.
Cable Temperature Rating	Temp -20°C to 70°C	

ELECTRICAL CHARACTERISTICS AT 20°C

Nominal Impedance	75 Ω
Nominal Velocity of Propagation	85%
Shielding Effectiveness	> 100 dB
Capacitance	50.0 pF/m. (nom.)

CABLE PHYSICAL CONSTRUCTION

COMPONENT	STANDARD SHIELD		TRI-SHIELD		QUAD-SHIELD	
	Inches	mm	Inches	mm	Inches	mm
Nominal Center Conductor Diameter	0.032	0.81	0.032	0.81	0.032	0.81
Nominal Diameter Over Dielectric	0.144	3.66	0.144	3.66	0.144	3.66
Nominal Diameter Over First Shield (Tape)	0.151	3.84	0.151	3.84	0.151	3.84
Nominal Diameter Over Jacket	0.240	6.10	0.240	6.10	0.265	6.73
Nominal Jacket Wall Thickness	0.032	0.81	0.030	0.76	0.034	0.86
Nominal Diameter of Steel Messenger	Ø0.051	1.30	Ø0.051	1.30	Ø0.051	1.30
Shield: Foil	Aluminum Laminated Foil, Bonded to Dielectric					
Shield: 2nd Foil	N/A		Al. Laminated Foil		Al. Laminated Foil	
Braid:	Aluminum Wire 60% Coverage					
Braid: 2nd Braid	N/A		N/A		Aluminum Wire, 35% Coverage	

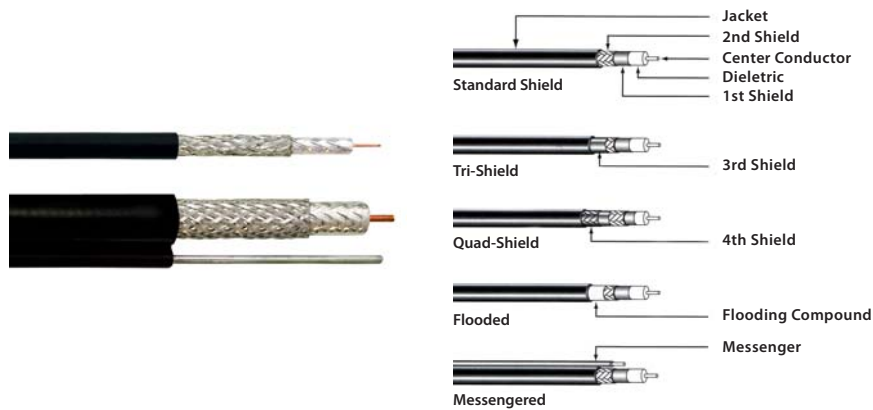
PART NUMBER

3	0	1	-	R	G	5	9	0	0	-	S	S	B	K	-	1	2	2	3
Construction				Shielding				Colour				Outer Jacket				Braiding			
00 - Standard				SS - Standard Shield				BK - Black				1 - PVC				1 - 50%			
0M - Messenger				3S - Tri-Shield				WH - White				2 - PE				2 - 60%			
0F - Flooding				QS - Quad-Shield								3 - LSZH				3 - 70%			
FM - Flooding + Messenger																4 - 80%			
																5 - 90%			
																6 - 95%			
																Length			
																1 - 1000 m			
																3 - 305 m			
																5 - 500 m			

STANDARD CONSTRUCTION

18 AWG, 0.040 in. (1.02 mm) Copper Covered Steel Center Conductor; Gas Expanded Polyethylene Dielectric; Inner Shield Aluminum-Polypropylene-Aluminum laminated tape with overlap bonded to dielectric; Outer Shield of 34 AWG Aluminum wire braid shield; Outer Black Jacket of Polyvinylchloride (PVC). Nominal O.D. 0.272 in. (6.91 mm).

Other options are available upon request.



ATTENUATION AT 20°C

FREQUENCY (MHz)	MAXIMUM (dB/100ft)	MAXIMUM (dB/100m)
5	0.58	1.90
55	1.60	5.25
211	3.05	10.00
250	3.30	10.82
350	3.85	12.63
400	4.15	13.61
450	4.40	14.43
500	4.66	15.09
550	4.90	16.08
600	5.10	16.73
750	5.65	18.54
865	6.10	20.01
1000	6.55	21.49
1200	7.29	23.89
1450	8.02	26.30
1750	8.88	29.13
2000	8.98	29.47

MECHANICAL CHARACTERISTICS

Minimum Breaking Strength of Messenger	Ø0.051 in.	180 lbs. (80 kg)
Cable Temperature Rating	Temp -20°C to 70°C	

ELECTRICAL CHARACTERISTICS AT 20°C

Nominal Impedance	75 Ω
Nominal Velocity of Propagation	85%
Shielding Effectiveness	> 100 dB
Capacitance	53.2 pF/m. (nom.)

CABLE PHYSICAL CONSTRUCTION

Component	Standard Shield		Tri-Shield		Quad-Shield	
	Inches	mm	Inches	mm	Inches	mm
Nominal Center Conductor Diameter	0.040	1.02	0.040	1.02	0.040	1.02
Nominal Diameter Over Dielectric	0.180	4.57	0.180	4.57	0.180	4.57
Nominal Diameter Over First Shield (Tape)	0.187	4.75	0.187	4.75	0.187	4.75
Nominal Diameter Over Jacket	0.272	6.91	0.278	7.06	0.300	7.62
Nominal Jacket Wall Thickness	0.030	0.76	0.030	0.76	0.034	0.86
Nominal Diameter of Steel Messenger	Ø0.051	1.30	Ø0.051	1.30	Ø0.051	1.30
Shield: Foil	Aluminum Laminated Foil, Bonded to Dielectric					
Shield: 2nd Foil	N/A		Al. Laminated Foil		Al. Laminated Foil	
Braid:	Aluminum Wire 60% Coverage					
Braid: 2nd Braid	N/A		N/A		Aluminum Wire, 42% Coverage	

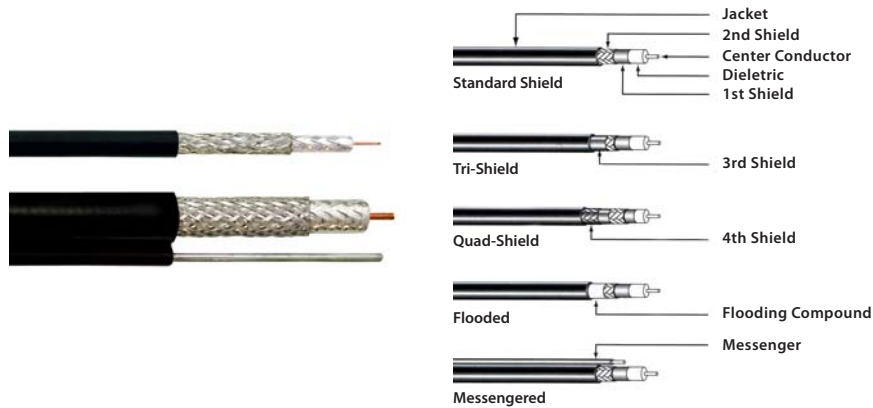
PART NUMBER

3	0	1	-	R	G	0	6	0	0	-	S	S	B	K	-	1	2	2	3			
Construction				Shielding				Colour				Outer Jacket				Braiding				Length		
00 - Standard				SS - Standard Shield				BK - Black				1 - PVC				1 - 50%				1 - 1000 m		
0M - Messenger				3S - Tri-Shield				WH - White				2 - PE				2 - 60%				3 - 305 m		
0F - Flooding				QS - Quad-Shield								3 - LSZH				3 - 70%				5 - 500 m		
FM - Flooding + Messenger																4 - 80%						
																5 - 90%						
																6 - 95%						

STANDARD CONSTRUCTION

14 AWG, 0.064 in. (1.63 mm) Copper Covered Steel Center Conductor, Gas Expanded Polyethylene Dielectric; Inner Shield Aluminum-Polypropylene-Aluminum laminated tape with overlap bonded to dielectric; Outer Shield of 34 AWG Aluminum wire braid shield; Outer Black Jacket of Polyethylene (PE). Nominal O.D 0.395 in. (10.03 mm).

Other options are available upon request.



ATTENUATION AT 20°C

FREQUENCY (MHz)	MAXIMUM (dB/100ft)	MAXIMUM (dB/100m)
5	0.38	1.25
55	0.96	3.15
211	1.90	6.23
250	2.05	6.72
350	2.42	7.94
400	2.60	8.53
450	2.75	9.02
500	2.90	9.51
550	3.04	9.97
600	3.18	10.43
750	3.65	11.97
865	3.98	13.05
1000	4.35	14.27
1200	4.84	15.85
1450	5.42	17.78
1750	6.10	20.01
2000	6.53	21.44

MECHANICAL CHARACTERISTICS

Minimum Breaking Strength of Messenger	Ø0.072 in.	365 lbs. (166 kg)
Cable Temperature Rating	Temp -20°C to 70°C	

ELECTRICAL CHARACTERISTICS AT 20°C

Nominal Impedance	75 Ω
Nominal Velocity of Propagation	85%
Shielding Effectiveness	> 100 dB
Capacitance	53.2 pF/m. (nom.)

CABLE PHYSICAL CONSTRUCTION

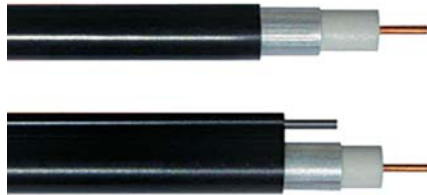
COMPONENT	STANDARD SHIELD		TRI-SHIELD		QUAD-SHIELD	
	Inches	mm	Inches	mm	Inches	mm
Nominal Center Conductor Diameter	0.064	1.63	0.064	1.63	0.064	1.63
Nominal Diameter Over Dielectric	0.280	7.11	0.280	7.11	0.280	7.11
Nominal Diameter Over First Shield (Tape)	0.287	7.29	0.287	7.29	0.287	7.29
Nominal Diameter Over Jacket	0.395	10.03	0.395	10.03	0.405	10.29
Nominal Jacket Wall Thickness	0.042	1.07	0.039	0.99	0.037	0.94
Nominal Diameter of Steel Messenger	Ø0.072	1.83	Ø0.072	1.83	Ø0.072	1.83
Shield: Foil	Aluminium Laminated Foil, Bonded to Dielectric					
Shield: 2nd Foil	N/A		Al. Laminated Foil		Al. Laminated Foil	
Braid:	Aluminum Wire 60% Coverage					
Braid: 2nd Braid	N/A		N/A		Aluminum Wire, 40% Coverage	

PART NUMBER

3	0	1	-	R	G	1	1	0	0	-	S	S	B	K	-	2	2	2	3
Construction				Shielding				Colour				Outer Jacket				Braiding			
00 - Standard				SS - Standard Shield				BK - Black				1 - PVC				1 - 50%			
0M - Messenger				3S - Tri-Shield				WH - White				2 - PE				2 - 60%			
0F - Flooding				QS - Quad-Shield								3 - LSZH				3 - 70%			
FM - Flooding + Messenger																4 - 80%			
																5 - 90%			
																6 - 95%			
																Length			
																1 - 1000 m			
																3 - 305 m			
																5 - 500 m			

STANDARD CONSTRUCTION

0.109 in. (2.77 mm) Copper-Covered-Aluminum Center Conductor; Gas Expanded Polyethylene Dielectric; continuous Aluminum Outer Conductor; Polyethylene (PE) Jacket. Nominal O.D. 0.560 in. (14.22 mm).



ATTENUATION AT 20°C

FREQUENCY (MHz)	MAXIMUM (dB/100ft)	MAXIMUM (dB/100m)
5	0.16	0.52
55	0.54	1.77
211	1.09	3.58
250	1.20	3.94
270	1.24	4.07
300	1.31	4.30
325	1.37	4.49
350	1.43	4.69
400	1.53	5.02
450	1.63	5.35
500	1.73	5.67
550	1.82	5.97
600	1.91	6.27
750	2.16	7.09
865	2.34	7.68
1000	2.52	8.27

CABLE PHYSICAL CONSTRUCTION

COMPONENT	Inches	mm
Nominal Center Conductor Diameter	0.109	2.770
Nominal Diameter Over Dielectric	0.450	11.430
Norminal Diameter Over Outer Conductor	0.500	12.700
Norminal Outer Conductor Thickness	0.024	0.610
Norminal Diameter Over Jacket	0.560	14.220
Norminal Jacket Wall Thickness	0.030	0.760
MESSENGER VERSIONS		
Diameter of Steel Messenger	0.109	2.770

MECHANICAL CHARACTERISTICS

Min. Bending Radius (Jacketed)	3.5 in.	8.9 cm
Max. Pulling Tension	300 lbs.	136 kg
Min. Breaking Strength of Messenger	1800 lbs.	816 kg

ELECTRICAL CHARACTERISTICS AT + 20°C

Capacitance	15 ± 1.0 pF/ft 50 ± 3.0 nF/km
Impedance	75 ± 2 Ω
Velocity of Propagation	87.00%
Shielding Effectiveness	> 100 dB

D.C RESISTANCE AT 68°F OR 20°C

Inner Conductor	4.43 Ω/km
Outer Conductor	1.21 Ω/km
Loop	5.64 Ω/km

PART NUMBER

301 - 0AC500 - 0000	AC500 75 Ω Coaxial Trunk Cable with Messenger
301 - 0AC500 - 00NM	AC500 75 Ω Coaxial Trunk Cable Non-messenger
301 - 0AC500 - 0FNM	AC500 75 Ω Coaxial Trunk Cable with Flooding Compound, Non-messenger

STANDARD CONSTRUCTION

0.124 in. (3.15 mm) Copper Covered Aluminium Center Conductor; Gas Expanded Polyethylene dielectric; continuous Aluminum Outer Conductor; Polyethylene (PE) jacket.

Nominal O.D 0.610 in. (15.49 mm).



ATTENUATION AT 20°C

FREQUENCY (MHz)	MAXIMUM (dB/100ft)	MAXIMUM (dB/100m)
5	0.14	0.46
55	0.47	1.54
211	0.95	3.12
250	1.03	3.38
270	1.07	3.51
300	1.13	3.71
325	1.18	3.87
350	1.23	4.03
400	1.32	4.33
450	1.40	4.59
500	1.49	4.89
550	1.56	5.12
600	1.64	5.38
750	1.85	6.07
865	2.00	6.56
1000	2.17	7.12

CABLE PHYSICAL CONSTRUCTION

COMPONENT	Inches	mm
Nominal Center Conductor Diameter	0.124	3.150
Nominal Diameter Over Dielectric	0.514	13.030
Norminal Diameter Over Outer Conductor	0.540	13.720
Norminal Outer Conductor Thickness	0.014	0.343
Norminal Diameter Over Jacket	0.610	15.490
Norminal Jacket Wall Thickness	0.035	0.890
MESSENGER VERSIONS		
Diameter of Steel Messenger	0.109	2.770

MECHANICAL CHARACTERISTICS

Min. Bending Radius (Jacketed)	4.0 in.	10.2 cm
Max. Pulling Tension	220 lbs.	100 kg
Min. Breaking Strength of Messenger	1800 lbs.	816 kg

ELECTRICAL CHARACTERISTICS AT + 20°C

Capacitance	15 ± 1.0 pF/ft 50 ± 3.0 nF/km
Impedance	75 ± 2 Ω
Velocity of Propagation	88.00 %
Shielding Effectiveness	> 100 dB

D.C RESISTANCE AT 68°F OR 20°C

Inner Conductor	3.34 Ω/km
Outer Conductor	1.94 Ω/km
Loop	5.28 Ω/km

PART NUMBER

301 - 0AC540 - 0000	AC540 75 Ω Coaxial Trunk Cable with Messenger
301 - 0AC540 - 00NM	AC540 75 Ω Coaxial Trunk Cable Non-messenger
301 - 0AC540 - 0FNM	AC540 75 Ω Coaxial Trunk Cable with Flooding Compound, Non-messenger

STANDARD CONSTRUCTION

0.129 in. (3.28 mm) Copper-Covered-Aluminum Center Conductor; Gas Expanded Polyethylene Dielectric; continuous Aluminum Outer Conductor; Polyethylene (PE) Jacket. Nominal O.D. 0.625 in. (15.9 mm).



ATTENUATION AT 20°C

FREQUENCY (MHz)	MAXIMUM (dB/100ft)	MAXIMUM (dB/100m)
5	0.14	0.46
55	0.47	1.54
211	0.93	3.06
250	1.03	3.38
270	1.07	3.51
300	1.13	3.71
325	1.18	3.87
350	1.23	4.03
400	1.32	4.33
450	1.40	4.59
500	1.49	4.89
550	1.56	5.12
600	1.64	5.38
750	1.85	6.07
865	2.00	6.56
1000	2.17	7.12

CABLE PHYSICAL CONSTRUCTION

COMPONENT	Inches	mm
Nominal Center Conductor Diameter	0.129	3.280
Nominal Diameter Over Dielectric	0.519	13.200
Norminal Diameter Over Outer Conductor	0.565	14.350
Norminal Outer Conductor Thickness	0.023	0.580
Norminal Diameter Over Jacket	0.625	15.900
Norminal Jacket Wall Thickness	0.030	0.760
MESSENGER VERSIONS		
Diameter of Steel Messenger	0.109	2.770

MECHANICAL CHARACTERISTICS

Min. Bending Radius (Jacketed)	5.0 in.	12.7 cm
Max. Pulling Tension	350 lbs.	159 kg
Min. Breaking Strength of Messenger	1800 lbs.	816 kg

ELECTRICAL CHARACTERISTICS AT + 20°C

Capacitance	15 ± 2.0 pF/ft 50 ± 3.0 nF/km
Impedance	75 ± 2 Ω
Velocity of Propagation	89.00%
Shielding Effectiveness	> 100 dB

D.C RESISTANCE AT 68°F OR 20°C

Inner Conductor	3.15 Ω/km
Outer Conductor	1.12 Ω/km
Loop	4.26 Ω/km

PART NUMBER

301 - 0AC565 - 0000	AC565 75 Ω Coaxial Trunk Cable with Messenger
301 - 0AC565 - 00NM	AC565 75 Ω Coaxial Trunk Cable Non-messenger
301 - 0AC565 - 0FNM	AC565 75 Ω Coaxial Trunk Cable with Flooding Compound, Non-messenger

STANDARD CONSTRUCTION

Inner Conductor:

- Copper Covered Aluminium (1/2", 1/2"S)
- Helical Copper Tube (7/8"S)
- Smooth Copper tube (7/8", 1-1/4")

Dielectric Insulation:

- Foamed PE

Outer Conductor:

- Helically Corrugated Copper (1/2"S)
- Ring Corrugated Copper (1/2", 7/8", 7/8"S, 1-1/4")

Jacket: PE

LSZH options available upon request.



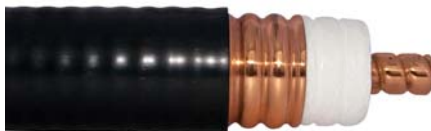
1/2"S



1/2"



7/8", 1-1/4"



7/8"S

SPECIFICATIONS

CONSTRUCTION		LOW LOSS			FLEXIBLE	
		1 – 1/4"	7/8"	1/2"	7/8" S	1/2" S
Inner Conductor Ø(mm)		13.10	9.05	4.80	9.42	3.60
Braid Shield Ø(mm)		35.80	24.90	13.80	24.90	12.20
Jacket Ø(mm)		39.40	27.50	15.80	27.00	13.60
Mechanical Characteristics						
Minimum Bending Radius (mm)	Single Bending	200	120	70	80	25
	10 Repeated Bending	380	250	125	125	30
	Mobile Application	700	500	350	400	200
Electrical Characteristics						
DC Resistance ≤ (Ω/km)(20°C)	Inner Conductor	0.72	1.05	1.48	2.70	2.69
	Outer Conductor	0.62	1.18	1.90	1.19	3.28
Capacitance (pF/m)		75	75	76	74	82
Impedance (Ω)		50 ± 1				
Velocity Ratio (%)		89	89	88	88	84
Attenuation (@20°C)						
Attenuation (20°C) (dB/100m) Max	100 MHz	0.83	1.19	2.17	1.30	3.41
	200 MHz	1.20	1.72	3.10	1.87	4.91
	300 MHz	1.50	2.13	3.83	2.32	6.09
	450 MHz	1.87	2.65	4.75	2.88	7.59
	800 MHz	2.59	3.63	6.46	3.94	10.40
	900 MHz	2.77	3.88	6.87	4.22	11.20
	1000 MHz	2.94	4.12	7.28	4.46	11.80
	1500 MHz	3.73	5.18	9.09	5.60	14.90
	1800 MHz	4.16	5.75	10.10	6.21	16.60
	2000 MHz	4.43	6.11	10.70	6.59	17.60
	2500 MHz	5.08	6.95	12.10	7.50	19.20
	3000 MHz	5.68	7.76	13.40	8.35	22.40
Mean Power Rating (kw) (Ambient Temperature 40°C inner Conductor 80°C)	100 MHz	11.700	7.560	3.490	6.620	3.080
	300 MHz	6.520	4.240	1.970	3.720	1.720
	450 MHz	5.220	3.410	1.590	2.990	1.380
	800 MHz	3.780	2.480	1.170	2.190	1.010
	1000 MHz	3.320	2.190	1.040	1.940	0.889
	1500 MHz	2.620	1.740	0.833	1.540	0.705
	1800 MHz	2.350	1.570	0.753	1.390	0.634
	2000 MHz	2.210	1.480	0.710	1.310	0.597
	2500 MHz	1.920	1.300	0.627	1.150	0.525
	3000 MHz	1.720	1.160	0.565	1.040	0.469
VSWR Max	0.01 GHz – 3 GHz	1.20				
	820 MHz – 960 MHz	1.10				
	1.7 GHz – 1.9 GHz					
	2.1 GHz – 2.2 GHz					

PART NUMBER

301 - RF0120 - 0000	50Ω RF 1/2" Low Loss Foamed Insulation Coaxial Cable, PE
301 - RF012S - 0000	50Ω RF 1/2" Flexible Foamed Insulation Coaxial Cable, PE
301 - RF0780 - 0000	50Ω RF 7/8" Low Loss Foamed Insulation Coaxial Cable, PE
301 - RF078S - 0000	50Ω RF 7/8" Flexible Foamed Insulation Coaxial Cable, PE
301 - RF1140 - 0000	50Ω RF 1-1/4" Low Loss Foamed Insulation Coaxial Cable, PE



FEATURES

- Frequency range: 45 MHz ~ 862 MHz
- RF Input Level: 75 dBμV ~ 85 dBμV
- AGC/AMC Function
- Pre-distortion circuit provides good non-linear distortion
- ATC/APC circuit provides stability
- Built-in lightning protection
- 19 in. Rack Mount design

SPECIFICATIONS

DESCRIPTION	PARAMETERS
Laser Type	DBF
Optical Wavelength (nm)	1310 ± 20
Optical Power (dB)	8, 12 or 14 (options)
Max. Optical Input Power (mW)	2
Fiber Connector	SC/ACP
Bandwidth (MHz)	45 ~ 862
Flatness (dB)	± 0.75
Input Return Loss (dB)	≥ 16
Input Impedance (Ω)	75
RF Gain Adjustment (dB)	0 ~ 10 (AGC/MGC)
RF Signal Level Range (dBμV)	75 ~ 85
CNR (dB)	≥ 51
C/CSO (dB)	≥ 60
C/CTB (dB)	≥ 65
Connector Type	F-connector
Dimension (mm)	480 x 380 x 45
Weight (kg)	6.5

PART NUMBER

308 - VT8600 - 0800	Indoor Optical Transmitter, SC/APC, 220 VAC, 1310 nm - 8 dB
308 - VT8600 - 1200	Indoor Optical Transmitter, SC/APC, 220 VAC, 1310 nm - 12 dB
308 - VT8600 - 1400	Indoor Optical Transmitter, SC/APC, 220 VAC, 1310 nm - 14 dB



FEATURES

- Use PIN diode or optical receiving module
- Receiving Optical Wavelength: 1290 nm - 1600 nm
- Plug in Bi-directional Diplex Filter options:
 - 30/47 MHz: Forward 47 - 862 MHz
Reverse 5 - 30 MHz
 - 42/54 MHz: Forward 54 - 862 MHz
Reverse 5 - 42 MHz
 - 65/87 MHz: Forward 87 - 862 MHz
Reverse 5 - 65 MHz
- Coupler or Splitter Output
- Optical Power Monitor
- 60 VAC power supply

SPECIFICATIONS

DESCRIPTION	PARAMETERS
IN Optical Wavelength (nm)	1290 ~ 1600
Optical Return Loss (dB)	> 45
Optical Input Power Range (dBm)	-7 ~ +2
Max. Optical Input Power (mW)	2
Fiber Connector	SC/ACP
Optical Output Power (dBm)	≥ -3
Optical Wavelength (nm)	1310
Frequency Range (MHz)	Diplex Filter Options: 30/42 MHz, 42/54 MHz, 65/87 MHz
Flatness in band (dB)	± 0.75
Return Loss (dB)	≥ 16
Nominal Output Level (dBμV)	112
Max. Output Level (dBμV)	112 (0 dBm)
CNR (dB)	≥ 51
C/CSO (dB)	≥ 60
C/CTB (dB)	≥ 65
Gain Adjustment Range (dB)	0 ~ 20
Slope Adjustment Range (dB)	0 ~ 12, step of 2
Test Level (dB)	-12 ± 1
Amplify Gain (dB)	18 ~ 28
Reverse OT. Flatness (dB)	± 0.75
Output Impedance (Ω)	75
Connector Type	F-connector
Power Supply (VAC)	60
Current (A)	10 (60 VAC power supply)
Power Consumption (W)	30 (Max)
Dimension (mm)	300 x 210 x 130
Weight (kg)	4

PART NUMBER

308 - VR86C4 - Bx00

Outdoor Bi-directional Optical Receiver, SC/APC,
60 VAC - 4 Outputs

x = Diplex Filter Options
 Substitute x = 1 (30/47MHz), 2 (42/54MHz), 3 (65/87MHz)



FEATURES

Agile Modulator:

- Five segments LED display output frequency, audio, V/A carrier power ratio, easy operate.
- Adjustable Audio IF(6.5/6.0/5.5/4.5)
- Frequency step 0.25 MHz, random select frequency (47-860 MHz)
- Compatible PAL, NTSC and SECAM signal standards.
- Automatic storage and retention after power off.

Fixed Modulator:

- Applicable for 47 ~ 860 MHz, fixed channel output.
- LED display Video/Audio frequency.
- Independent IF I/O interface
- Compatible PAL, NTSC and SECAM signal standards.

SPECIFICATIONS

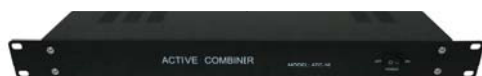
DESCRIPTION	308 - AM8600 - 0000 AGILE MODULATOR	308 - FM5944 - 0xxx FIXED MODULATOR
Output Frequency (MHz)	47 - 860	47 - 860
RF Output Level (dB)	98 - 118	98 - 115
Output Impedance (Ω)	75	75
Spurious Rejection (dB)	> 60	> 65
Frequency Adjusts Interval (MHz)	0.25	-
Frequency Tolerance (KHz)	-	< 3
Flatness (dB)	< 1.0	< 0.5
RF Return Loss (dB)	> 14	> 14
V/A Carrier Power Ratio (dB)	10 - 20	10 - 20
Input Video (Vp-p)	1	1
Video Mod Depth (%)	≥ 87.5	≥ 87.5
Audio carrier (MHz)	6.5/6.0/5.5/4.5 Available	6.5/6.0/5.5/4.5 Available
Adjustable Audio IF (%)	1.5	-
Power Supply (VAC)	220	220
Power Consumption (W)	15	8
Operating Temperature $^{\circ}\text{C}$	0 - 40	0 - 40
Dimension (mm)	483*300*45	483*250*45
Weight (kg)	3	2.43

PART NUMBER

308 - AM8600 - 0000	Agile Modulator
308 - FM5944 - 0xxx	Fixed Modulator, xxx= channel number



Passive Combiner



Active Combiner

FEATURES

- 28 dB High Isolation
- Low VSWR
- Active Combiner comes with Internal Amplified module for 1000 MHz systems

SPECIFICATIONS

DESCRIPTION	PARAMETERS
Frequency Range (MHz)	5 ~ 1000
Isolation Port to Port (dB)	≥ 25 (5~65 MHz) ≥ 28 (65~750 MHz) ≥ 25 (750~1000 MHz)
Insertion Gain (dB)	≥ 8
Input Return Loss (dB)	≥ 25 (5~65 MHz) ≥ 18 (65~750 MHz) ≥ 16 (750~1000 MHz)
Output Return Loss (dB)	≥ 25 (5~65 MHz) ≥ 18 (65~750 MHz) ≥ 16 (750~1000 MHz)
Input Impedance (Ω)	75
Output Impedance (Ω)	75
Flatness (dB)	± 2
Operating Temperature °C	5 ~ 40
Operating Humidity (%)	≤ 85
Operating Air Pressure (kpa)	86 ~ 106
Power	AC220V, 8 W
Dimension (mm)	483 x 163 x 43
Weight (kg)	1.5

PART NUMBER

308 - ATC016 - 0000	16-port Active Combiner
308 - DTC016 - 0000	16-port Passive Combiner



Outdoor Line Amplifier



Outdoor Trunk Amplifier

FEATURES

- Waterproof Casing for Outdoor Amplifier
- GaAs Module effectively enhance non-linear parameters, output capability and decrease noise figure.
- 2-way design, including forward channel, return channel and over-current channel.
- Configurable forward channel.
- Plug in Bi-directional Diplex Filter options:
 - 30/47MHz: Forward 47 - 862 MHz
Reverse 5 - 30 MHz
 - 42/54MHz: Forward 54 - 862 MHz
Reverse 5 - 42 MHz
 - 65/87MHz: Forward 87 - 862 MHz
Reverse 5 - 65 MHz
- Optional AGC/ASC.
- Adjustable Equalizer and Attenuator.
- Test ports for Input and Output.
- 2 Outputs.

SPECIFICATIONS

DESCRIPTION	308 - 7530B2 - Bx00 TRUNK AMPLIFIER		308 - 8055R2 - Bx00 LINE AMPLIFIER	
	FORWARD	REVERSE	FORWARD	REVERSE
Frequency Band (MHz)	47/54/87 ~ 862	5 ~ 30/42/65	47/54/87 ~ 862	5 ~ 30/42/65
Typical Input Level (dBμV)	75	80	75	80
Typical Output Level (dBμV)	110	98	108	98
Typical Gain (dB)	30 ~ 32	17.5	34	17.5
Flatness (dB)	± 0.75		± 0.75	
Max. Reverse Output Level (dBμV)	-	110	-	108
Typical Return Loss (dB)	≥ 15.2	≥ 14.3	≥ 15.2	≥ 14.3
Noise Figure (dB)	< 8		< 8	
CTB (dB)	≥ 66		≥ 67.10	
CSO (dB)	≥ 68		≥ 67.10	
AC Passing Current (A/AC)	> 5		> 5	
Power Consumption (W)	< 25		< 25	
Power Supply (VAC)	60		60	
Anti-strike Voltage (kV)	6kV/200A		6kV/200A	
RF Connector Type	F-Connector		F-Connector	
Operating Temperature (°C)	-25 ~ 55		-25 ~ 55	
Dimension (mm)	280 x 197 x 125		265 x 179 x 110	
Weight (kg)	2.4		2.3	

PART NUMBER

308 - 7530B2 - Bx00	Outdoor Bi-directional Trunk Amplifier without AGC/ASC, 60 VAC - 2 RF Outputs
308 - 7530B2 - BxA0	Outdoor Bi-directional Trunk Amplifier with AGC/ASC, 60 VAC - 2 RF Outputs
308 - 8055R2 - Bx00	Outdoor Bi-directional Line Amplifier, 60 VAC - 2 RF Outputs

x = Diplex Filter Options

Substitute x = 1 (30/47MHz), 2 (42/54MHz), 3 (65/87MHz)



FEATURES

- High power round transformer, low noise and low magnetic leakage
- Lighting and surge voltage protection and alarm
- Surge current and short circuit protection
- Automatic shut down and restart circuit
- Bi-directional
- 15 A
- 2 Outputs

SPECIFICATIONS

DESCRIPTION	PARAMETERS
Frequency Range (MHz)	5 – 1000
Input Voltage (VAC)	220 ± 10%
Output Voltage (VAC)	60 ± 10%
Plugging Loss (dB)	≤ 0.5
Return Loss (dB)	> 15
Auto-restart Time (s)	5 ± 5%
Max Current Output (A)	15
Dimension (mm)	505 x 365 x 39
Weight (kg)	6.7

PART NUMBER

308 - IXP15B - 2000	Bi-directional Power Supply, 60 Hz - 15 A
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2-way Splitter



4-way Splitter



8-way Splitter

FEATURES

- Zinc die cast housing, nickel-plated
- Screening factor: 30 - 300 MHz $\geq$ 85dB
300 - 470 MHz $\geq$ 80dB
470 - 1000 MHz $\geq$ 75dB
- Bandwidth: 5 - 1000 MHz
- Low insertion loss, high return loss and isolation
- FR4 PCB for consistency of specifications in all bandwidth
- High quality ferrites, SMD resistors and capacitors
- Each unit is individually packed in PE bag
- Grounding terminal provided
- All ports DC block; Connector: F female, 75 Ω

SPECIFICATIONS

Part Number	Insertion Loss (dB, max.)				Out to Out Isolation (dB, min.)			
	5 - 65 MHz	65 - 550 MHz	550 - 750 MHz	750 - 1000 MHz	5 - 65 MHz	65 - 550 MHz	550 - 750 MHz	750 - 1000 MHz
2-way Splitter								
308 - IS5172 - 0000	3.2	3.5	3.8	4.2	35	32	30	30
3-way Splitter								
308 - IS5173 - 0000	4.9	5.2	5.7	6.0	30	30	30	28
4-way Splitter								
308 - IS5174 - 0000	6.6	7.0	7.6	7.7	32	32	30	28
6-way Splitter								
308 - IS5176 - 0000	8.2	9.0	9.8	10.4	29	27	26	26
8-way Splitter								
308 - IS5178 - 0000	10.1	10.6	11.4	12.5	27	35	31	26
10-way Splitter*								
308 - IS5150 - 0000	11.4	11.9	12.4	14.0	23	25	25	22
12-way Splitter*								
308 - IS5152 - 0000	11.5	12.1	12.6	14.0	21	24	24	21
14-way Splitter*								
308 - IS5154 - 0000	15.0	16.0	16.0	17.0	23	25	25	22
16-way Splitter*								
308 - IS5156 - 0000	15.0	16.0	16.0	17.0	23	25	25	22

* Low inter-modulation drop splitter with high voltage capacitor at every port



1-way Tap



3-way Tap



6-way Tap

FEATURES

- Zinc die cast housing, nickel-plated
- Screening factor: 30 - 300 MHz $\geq$ 85 dB
 300 - 470 MHz $\geq$ 80 dB
 470 - 1000 MHz $\geq$ 75 dB
- Bandwidth: 5 - 1000 MHz
- Low insertion loss, high return loss and isolation
- FR4 PCB for consistency of specifications in all bandwidth
- High quality ferrites, SMD resistors and capacitors
- Each unit is individually packed in PE bag
- Grounding terminal provided
- All ports DC block; Connector: F female, 75 Ω

SPECIFICATIONS

Part Number	Insertion Loss (dB, min.)				Out to Tap Insolation (dB, min.)				Tap to Tap Isolation (dB, min.)
	5 - 65 MHz	65 - 550 MHz	550 - 750 MHz	750 - 1000 MHz	5 - 65 MHz	65 - 550 MHz	550 - 750 MHz	750 - 1000 MHz	
1-way Tap									
308 - IT5271 - 0008	1.8	1.8	1.9	2.2	30	30	30	26	-
308 - IT5271 - 0012	1.3	1.3	1.4	1.5	32	30	30	26	
308 - IT5271 - 0016	0.7	0.7	0.8	0.9	33	30	28	28	
308 - IT5271 - 0020	0.5	0.5	0.6	0.7	35	30	28	28	
308 - IT5271 - 0024	0.5	0.6	0.6	0.7	35	30	28	28	
2-way Tap									
308 - IT5272 - 0008	3.8	3.8	4.0	4.5	28	30	30	28	5 - 65 MHz: 25 65 - 550 MHz: 30 550 - 1000 MHz: 25
308 - IT5272 - 0012	2.0	2.1	2.2	2.4	30	30	30	25	
308 - IT5272 - 0016	1.5	1.5	1.6	1.7	32	30	30	28	
308 - IT5272 - 0020	0.8	0.8	0.9	1.0	33	30	30	28	
308 - IT5272 - 0024	0.8	0.8	0.9	1.0	33	30	30	28	
3-way Tap									
308 - IT5273 - 0010	3.4	3.4	3.8	4.5	28	30	28	25	5 - 65 MHz: 25 65 - 550 MHz: 28 550 - 1000 MHz: 26
308 - IT5273 - 0012	3.3	3.3	3.5	3.8	28	30	28	25	
308 - IT5273 - 0016	1.1	1.4	1.6	1.8	28	30	30	28	
308 - IT5273 - 0020	0.9	0.9	1.0	1.2	32	30	30	30	
308 - IT5273 - 0024	0.9	0.9	1.0	1.0	32	30	30	39	
4-way Tap									
308 - IT5274 - 0012	3.2	3.4	3.6	3.8	28	30	30	25	5 - 65 MHz: 25 65 - 550 MHz: 28 550 - 1000 MHz: 26
308 - IT5274 - 0016	1.1	1.4	1.6	1.8	30	30	28	26	
308 - IT5274 - 0020	0.9	0.9	1.0	1.2	30	30	30	28	
308 - IT5274 - 0024	0.9	0.9	1.0	1.0	34	34	34	28	
6-way Tap									
308 - IT5276 - 0014	4.2	4.3	4.6	4.7	30	28	26	24	25
308 - IT5276 - 0017	2.4	2.7	2.9	3.0	30	28	28	26	25
308 - IT5276 - 0020	1.2	1.4	1.7	2.0	32	30	30	28	25
308 - IT5276 - 0023	1.1	1.3	1.4	2.0	32	30	30	30	25
8-way Tap									
308 - IT5278 - 0017	2.4	2.7	2.9	3.0	30	28	26	26	25
308 - IT5278 - 0020	1.2	1.4	1.7	2.0	32	30	28	28	25
308 - IT5278 - 0023	1.1	1.3	1.4	2.0	32	30	30	30	25



Splitter



Directional Coupler



Power Inserter

FEATURES

- Aluminum alloy housing is finished with a baked acrylic paint
- FR4 PCB for consistency of specifications in all bandwidth
- High quality ferrites, SMD resistors and capacitors
- Return loss all ports: 5 - 750 MHz: 18 dB, 750 - 1000 MHz: 16 dB
- Hum modulation at 10 Amps: 70 dB min
- All port power passing: 15 Amps 60 VAC
- Impedance: 75 Ω all ports
- Aerial or pedestal installation with 5/8" port entry
- The 100 dB RF integrity is maintained by the use of tongue and groove design and with a stainless steel mesh RF gasket

SPECIFICATIONS

Part Number	BR Loss (dB)	Insertion Loss (dB, max.)				Isolation Loss (dB, min.)				
		5 - 42 MHz	42 - 470 MHz	470 - 862 MHz	862 - 1000 MHz	5 - 15 MHz	15 - 42 MHz	42 - 470 MHz	470 - 862 MHz	862 - 1000 MHz
2-way Splitter										
308 - OS4212 - 0000	/	3.6	4	4.6	4.8	25	30	30	26	25
3-way Splitter										
308 - OS4213 - 0000	/	6.8	7.2	7.6	8.0	24	30	29	26	26
3-way Splitter (Balance)										
308 - OS4213 - B000	/	5.5	5.7	6.6	7.0	24	30	25	28	26
1-way Directional Coupler						Out to Tap Isolation (dB, min.)				
308 - DC4221 - 0008	8	1.6	2.2	2.6	2.8	25	35	27	25	25
308 - DC4221 - 0012	12	1.2	1.5	2.0	2.2	25	32	30	28	26
308 - DC4221 - 0016	16	1.0	1.4	1.9	2.0	31	35	28	26	25
308 - DC4221 - 0020	20	0.8	1.3	1.8	1.8	33	33	28	24	26
Power Inserter						RF to AC Isolation (dB, min.)				
308 - PI4231 - 0000	/	0.6	0.6	0.8	0.8	68	70	70	65	60



2-way Tap



4-way Tap



8-way Tap

FEATURES

- Aluminum alloy housing is finished with a baked acrylic paint
- Continual power through between input and output
- Neoprene sealed and nickel - plated brass for all taps "F - (f)" port
- Aerial or pedestal installation with 5/8" port entry
- Tongue and groove design and with a stainless steel mesh RF gasket to ensure 100 dB RFI integrity
- FR-4 PCB for consistency of specifications in all bandwidth
- High quality ferrites, SMD resistors and capacitors
- Return loss all ports: 5 - 750 MHz: 20 dB min., 750 - 1000 MHz: 18 dB min.
- Hum modulation at 10 Amps: 60 dB min.
- In-Out Power passing: 12 Amps 60 VAC
- Impedance: 75 Ω all ports

SPECIFICATIONS

Part Number	Insertion Loss (dB, max.)				Tap to Tap Isolation (dB, max.)				Out to Tap Isolation (dB, min.)			
	5 - 42 MHz	42 - 470 MHz	470 - 862 MHz	862 - 1000 MHz	5 - 42 MHz	42 - 470 MHz	470 - 862 MHz	862 - 1000 MHz	5 - 42 MHz	42 - 470 MHz	470 - 862 MHz	862 - 1000 MHz
2-way Tap												
308 - OT4522 - 0004	T	T	T	T	33	35	30	38	T	T	T	T
308 - OT4522 - 0008	3.2	3.5	4.0	4.7	32	30	31	29	35	35	29	28
308 - OT4522 - 0011	2.0	2.3	2.5	3.2	30	31	29	28	33	32	32	28
308 - OT4522 - 0014	2.0	2.2	2.3	2.5	30	33	32	28	30	32	30	27
308 - OT4522 - 0017	1.2	1.3	1.4	1.8	33	34	32	30	33	32	32	33
308 - OT4522 - 0020	1.1	1.1	1.3	1.5	35	35	34	32	36	35	34	32
308 - OT4522 - 0023	1.0	1.1	1.3	1.5	36	34	34	33	37	36	35	33
4-way Tap												
308 - OT4524 - 0008	T	T	T	T	32	30	30	29	T	T	T	T
308 - OT4524 - 0011	3.6	3.8	4.2	4.8	29	30	28	26	28	29	26	26
308 - OT4524 - 0014	2.0	2.2	2.7	4.0	30	31	29	28	33	31	30	27
308 - OT4524 - 0017	1.6	1.8	2.6	3.8	30	32	28	27	28	30	27	26
308 - OT4524 - 0020	0.8	1.2	1.9	2.6	33	31	30	28	32	32	30	27
308 - OT4524 - 0023	0.8	1.2	1.8	2.3	31	31	33	30	33	34	33	30
8-way Tap												
308 - OT4528 - 0011	T	T	T	T	36	34	28	26	T	T	T	T
308 - OT4528 - 0014	3.2	3.9	4.6	4.8	28	32	28	26	28	32	30	28
308 - OT4528 - 0017	1.8	2.3	3.2	3.5	29	32	28	27	36	34	29	28
308 - OT4528 - 0020	0.9	1.6	2.3	3.2	31	30	28	26	32	33	30	29
308 - OT4528 - 0023	0.9	1.6	2.3	3.2	31	30	28	26	43	40	32	30

				
3CN - F303CS - RG06 RG6 Crimp w/ Silicon & O-Ring	3CN - F303CM - RG06 RG6 Compression	3CN - MSC006 - 1000 RG6 BNC Crimp	3CN - F352GS - RG11 RG11 Crimp	3CN - F352CM - RG11 RG11 Compression
				
3CN - MSC059 - 1000 RG59 BNC Crimp	302 - R611CR - 0000 Tool for RG6 & RG11 Crimp type	302 - R561CM - 0000 Tool for RG6, RG11 & RG59, Compression type	3CN - 7031PT - 0500 500 Pin type	3CN - 7032FC - 0500 500 F type
				
3CN - 7033FT - 0500 500 Feed thru	3CN - 7034SP - 0500 500 Splice	3CN - 7041PT - 0540 540 Pin type	3CN - 7042FC - 0540 540 F type	3CN - 7043FT - 0540 540 Feed thru
				
3CN - 7044SP - 0540 540 Splice	3CN - 7051PT - 0565 565 Pin type	3CN - 7052FC - 0565 565 F type	3CN - 7053FT - 0565 565 Feed thru	3CN - 7054SP - 0565 565 Splice
				
3CN - 7081SP - FOFF F f - f Splice	3CN - 7085FT - 0000 F Male 75 ohm terminator	3CN - 7086FL - 0000 F Male lock	3CN - 7091FC - 0058 5/8" to F Female	3CN - 7092PP - 0000 Pin to Pin
				
3CN - 7093OT - 0000 Outdoor 75 ohm terminator	3CN - 7094AD - 0090 90° Adaptor	3CN - 7101GB - 0000 Ground block W/1 F - 81	3CN - 7102GB - 0000 Ground block W/2 F - 81	3CN - 7104GB - 0000 Ground block W/4 F - 81

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