



SITE SOLUTIONS

for Wireless Infrastructure



The background of the entire page is a silhouette of a cellular tower against a sunset sky. The tower is a complex lattice structure with various antennas and equipment mounted on it. The sun is low on the horizon, creating a bright orange and yellow glow. The text is overlaid on this background.

Performance-Driven Technology for Cellular Networks

ONE SOURCE.

GLOBAL SITE SOLUTIONS™

Amphenol is a leading global solutions provider for wireless infrastructure systems. Whether it's a complex base station, a small DAS network or an In-Building System, we supply over 6,000 products with best-in-class performance.

With Amphenol, OEMs and operators have the convenience of a one-stop shop, not only for quality antennas, but for transmission line products like feeder cable, hybrid fiber, surge arrestors and connectors as well as RF peripherals like TMAs, combiners, couplers and splitters. All products support next generation wireless communication systems.

Amphenol offers years of expertise in product design, development and engineering along with an unparalleled commitment to customer service.

Contents

Site Solutions for Wireless Infrastructure

Amphenol Antenna Solutions is a single source for wireless infrastructure offering not only quality base station and Small Cell antennas, but also transmission line products like feeder cable, hybrid fiber, surge arrestors and connectors as well as RF peripherals like TMAs, combiners, couplers and splitters.



4 Transmission Line Products

Amphenol Antenna Solutions provides a full portfolio of Jumpers, cable, and cable accessories for use in Mobile Site integration and Distributed Antenna System (DAS) integration use.

- 6 Jumper Cables
- 8 RF Connectors
- 9 RF Adaptors
- 10 Feeder Cable
- 11 Weather-proofing Boots
- 12 Weather-proofing Tape
- 13 Grounding Kits
- 14 Clamps

15 RF Conditioning Products

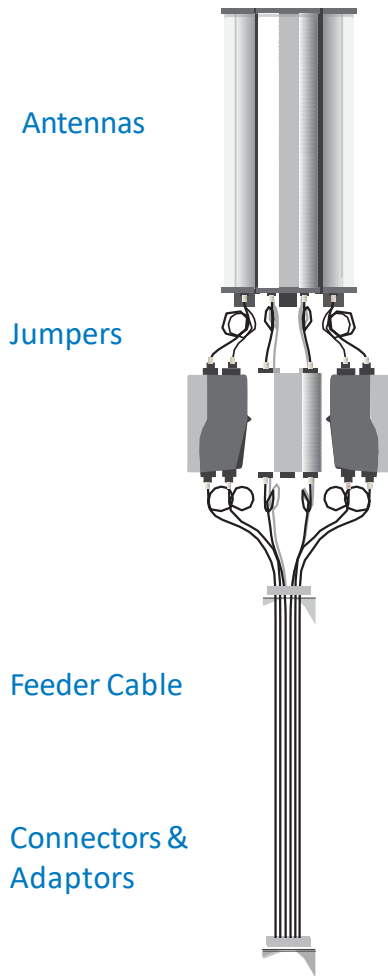
Amphenol Antenna Solutions offers a complete line of RF Conditioning Products for use between the BTS and Antennas.

- 16 Tower Mounted Amplifiers
- 18 Multiplexers
- 20 Filters
- 20 Same Band Combiners
- 21 Duplexers
- 22 Smart Bias Tees
- 23 AISG Control Cables

22 DAS Passive Devices

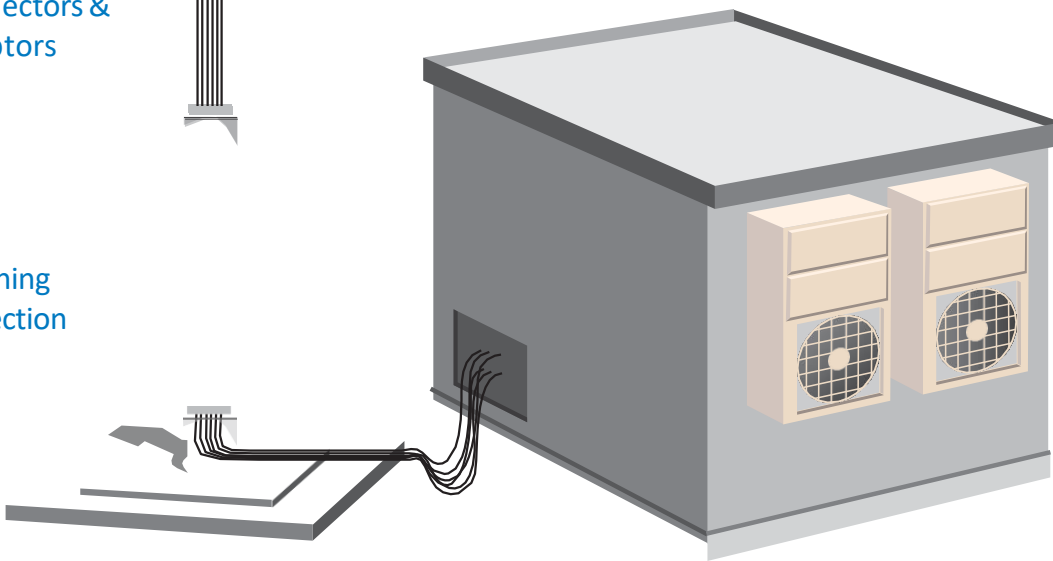
Amphenol Antenna Solutions focus on distributed antenna system integration has led us to be a one-stop shop to offer Hybrid, coupler, tapper, splitter, attenuator, load, POI.

- 23 Hybrid Combiner
- 24 Directional Coupler
- 25 Tappers
- 26 Splitters
- 27 Attenuators
- 28 Termination Loads
- 29 DC Blocks
- 29 POI's



Amphenol Antenna Solutions provides a comprehensive suite of solutions for virtually all applications and global frequencies, with product available from the top of the tower to the base station.

Lightning Protection



Jumper Cable Assemblies



Amphenol's premium **Jumper Cable** options are designed for outdoor applications under extreme conditions with high flexibility and small bending diameters. Cable assemblies are available in a variety of lengths and connector combinations.

Connectors & Adaptors



Amphenol has been a leading global interconnect solutions provider since 1932 and offers a multitude of products for wireless infrastructure. Our fast fitting, precision grade RF **Connectors & Adaptors** are available in 4.3-10, 7/16-DIN and N-Type with male and female interfaces. One-piece pin design with O-ring seals. Suited for both copper and aluminum cables.

Feeder Cable



Whether it's a connection to a single component or a fully integrated RF transmission line system, Amphenol can supply your RF **Feeder Cable**. Select from flexible or superflexible, copper or aluminum with standard or fire retardant jackets in 1/4", 3/8", 1/2", 7/8", 1-1/4" or 1-5/8".

Accessories & Tools



All you need to get the job done - **Weather-proofing Boots, Weather-proofing Tape, Grounding Kits, Feeder Clamps** and more.

Easy to install **weather-proofing** options to seal out the environment and protect your cable.

Grounding kits for discharging lightning strikes that occur to ground. Available for 1/4", 1/2", 7/8", 1-1/4" and 1-5/8".

High-grade **feeder clamps** designed for trouble-free installation. A variety of types available depending on the number of cables to be secured.

Nomenclature Guide for Jumper Cables

12 HF 4SMR 4SMR xxx

1 2 3 4 5

| 1 Cable Size | 2 Cable Type | 3 & 4 Connector A & Connector B | 5 Length | | | |
|---------------|---|--|--|--------------|--|---|
| 11 = 1 - 1/4" | FLS = Superflexible Fire Resistant Low Loss, LSZH FLR = Superflexible Flame Retardant Low Loss, LSZH HF = Superflexible HFF = Superflexible Fire Resistant HFL = Superflexible Low Loss HFR = Superflexible Flame Retardant HFV = Superflexible improved VSWR HFS = Superflexible Fire Resistant, LSZH HLF = Superflexible Fire Resistant Low Loss HLR = Superflexible Flame Retardant Low Loss HRS = Superflexible Flame Retardant, LSZH | LFS = Standard Fire Resistant Low Loss, LSZH LRS = Standard Flame Retardant Low Loss, LSZH SFS = Standard Fire Resistant, LSZH SLF = Standard Fire Resistant Low Loss SLR = Standard Flame Retardant Low Loss SRS = Standard Flame Retardant, LSZH ST = Standard STF = Standard Fire Resistant STL = Standard Low Loss STR = Standard Flame Retardant | 4HF = 4.3-10 Hand Screw Female 4HFR = 4.3-10 Hand Screw Female Right Angle 4HM = 4.3-10 Hand Screw Male 4HMR = 4.3-10 Hand Screw Male Right Angle 4SF = 4.3-10 Screw Female 4SFR = 4.3-10 Screw Female Right Angle 4SM = 4.3-10 Screw Male 4SMR = 4.3-10 Screw Male Right Angle DF = 7/16-DIN Female DFR = 7/16-DIN Female Right Angle DM = 7/16-DIN Male DMR = 7/16-DIN Male Right Angle NF = N Female NFR = N Female Right Angle NM = N Male NMR = N Male Right Angle | 005 = 0.5 m | | |
| 12 = 1/2" | | | | 010 = 1.0 m | | |
| 14 = 1/4" | | | | 015 = 1.5 m | | |
| 15 = 1 - 5/8" | | | | 020 = 2.0 m | | |
| 21 = 2 - 1/4" | | | | 025 = 2.5 m | | |
| 38 = 3/8" | | | | ... | | |
| 58 = 5/8" | | | | 095 = 9.5 m | | |
| 78 = 7/8" | | | | 100 = 10.0 m | | |
| K4 = KSR400 | | | | | | <i>Lengths from 0.5m to 10m available</i> |

Jumper Cable Product Reference

| Model | Cable Size | Cable Type | Frequency | Connector A | Connector B | Length |
|-----------------------|--|---------------------------|------------|-------------------|-------------------------------|--------|
| 12HF4SM4SMxxx | When ordering, replace the "x" in the model number with the length of cable in meters. See examples below: | | | | | |
| 12HF4SM4SM005 | 1/2" | Superflexible - PE Jacket | DC-3.8 GHz | 4.3-10 Screw Male | 4.3-10 Screw Male | 0.5 m |
| 12HF4SM4SM010 | | | | | | 1.0 m |
| 12HF4SM4SM015 | | | | | | 1.5 m |
| 12HF4SM4SM020 | | | | | | 2.0 m |
| 12HF4SM4SM030 | | | | | | 3.0 m |
| 12HF4SM4SM050 | | | | | | 5.0 m |
| 12HF4SM4SMRxxx | When ordering, replace the "x" in the model number with the length of cable in meters. See examples below: | | | | | |
| 12HF4SM4SMR005 | 1/2" | Superflexible - PE Jacket | DC-3.8 GHz | 4.3-10 Screw Male | 4.3-10 Screw Male Right Angle | 0.5 m |
| 12HF4SM4SMR010 | | | | | | 1.0 m |
| 12HF4SM4SMR015 | | | | | | 1.5 m |
| 12HF4SM4SMR020 | | | | | | 2.0 m |
| 12HF4SM4SMR030 | | | | | | 3.0 m |
| 12HF4SM4SMR050 | | | | | | 5.0 m |
| 12HF4SMDMxxx | When ordering, replace the "x" in the model number with the length of cable in meters. See examples below: | | | | | |
| 12HF4SMDM005 | 1/2" | Superflexible - PE Jacket | DC-3.8 GHz | 4.3-10 Screw Male | 7/16-DIN Male | 0.5 m |
| 12HF4SMDM010 | | | | | | 1.0 m |
| 12HF4SMDM015 | | | | | | 1.5 m |
| 12HF4SMDM020 | | | | | | 2.0 m |
| 12HF4SMDM030 | | | | | | 3.0 m |
| 12HF4SMDM050 | | | | | | 5.0 m |
| 12HF4SMDMRxxx | When ordering, replace the "x" in the model number with the length of cable in meters. See examples below: | | | | | |
| 12HF4SMDMR005 | 1/2" | Superflexible - PE Jacket | DC-3.8 GHz | 4.3-10 Screw Male | 7/16-DIN Male Right Angle | 0.5 m |
| 12HF4SMDMR010 | | | | | | 1.0 m |
| 12HF4SMDMR015 | | | | | | 1.5 m |
| 12HF4SMDMR020 | | | | | | 2.0 m |
| 12HF4SMDMR030 | | | | | | 3.0 m |
| 12HF4SMDMR050 | | | | | | 5.0 m |



| Model | Cable Size | Cable Type | Frequency | Connector A | Connector B | Length |
|---|------------|---------------------------|------------|------------------|---------------------------|--------|
| 12HFDMDMxxx When ordering, replace the "x" in the model number with the length of cable in meters. See examples below: | | | | | | |
| 12HFDMDM005 | 1/2" | Superflexible - PE Jacket | DC-3.8 GHz | 7/16-DIN Male | 7/16-DIN Male | 0.5m |
| 12HFDMDM010 | | | | | | 1.0m |
| 12HFDMDM015 | | | | | | 1.5m |
| 12HFDMDM020 | | | | | | 2.0m |
| 12HFDMDM030 | | | | | | 3.0m |
| 12HFDMDM050 | | | | | | 5.0m |
| 12HFDMDMRxxx When ordering, replace the "x" in the model number with the length of cable in meters. See examples below: | | | | | | |
| 12HFDMDMR005 | 1/2" | Superflexible - PE Jacket | DC-3.8 GHz | 7/16-DIN Male | 7/16-DIN Male Right Angle | 0.5m |
| 12HFDMDMR010 | | | | | | 1.0m |
| 12HFDMDMR015 | | | | | | 1.5m |
| 12HFDMDMR020 | | | | | | 2.0m |
| 12HFDMDMR030 | | | | | | 3.0m |
| 12HFDMDMR050 | | | | | | 5.0m |
| 12HFNMNMxxx When ordering, replace the "x" in the model number with the length of cable in meters. See examples below: | | | | | | |
| 12HFNMNM005 | 1/2" | Superflexible - PE Jacket | DC-3.0 GHz | N Male | N Male | 0.5m |
| 12HFNMNM010 | | | | | | 1.0m |
| 12HFNMNM015 | | | | | | 1.5m |
| 12HFNMNM020 | | | | | | 2.0m |
| 12HFNMNM030 | | | | | | 3.0m |
| 12HFNMNM050 | | | | | | 5.0m |
| 12ST4SM4SMxxx When ordering, replace the "x" in the model number with the length of cable in meters. See examples below: | | | | | | |
| 12ST4SM4SM005 | 1/2" | Standard - PE Jacket | DC-3.8 GHz | 4.3-10Screw Male | 4.3-10Screw Male | 0.5m |
| 12ST4SM4SM010 | | | | | | 1.0m |
| 12ST4SM4SM015 | | | | | | 1.5m |
| 12ST4SM4SM020 | | | | | | 2.0m |
| 12ST4SM4SM030 | | | | | | 3.0m |
| 12ST4SM4SM050 | | | | | | 5.0m |
| 12STDMDMxxx When ordering, replace the "x" in the model number with the length of cable in meters. See examples below: | | | | | | |
| 12STDMDM005 | 1/2" | Standard - PE Jacket | DC-3.8 GHz | 7/16-DIN Male | 7/16-DIN Male | 0.5m |
| 12STDMDM010 | | | | | | 1.0m |
| 12STDMDM015 | | | | | | 1.5m |
| 12STDMDM020 | | | | | | 2.0m |
| 12STDMDM030 | | | | | | 3.0m |
| 12STDMDM050 | | | | | | 5.0m |

Please contact your sales representative for exact specifications.

Additional Jumper Cable Products

| Model | Cable Size | Cable Type | Frequency | Connector A | Connector B |
|---------------|------------|---------------------------|------------|------------------|------------------|
| 14HF4SM4SMxxx | 1/4" | Superflexible - PE Jacket | DC-3.8 GHz | 4.3-10Screw Male | 4.3-10Screw Male |
| 14HF4SM4SMxxx | | | | 4.3-10Screw Male | 7/16-DIN Male |
| 14HFDMDMxxx | | | | 7/16-DIN Male | 7/16-DIN Male |
| 38HF4SM4SMxxx | 3/8" | Superflexible - PE Jacket | DC-3.8 GHz | 4.3-10Screw Male | 4.3-10Screw Male |
| 38HF4SM4SMxxx | | | | 4.3-10Screw Male | 7/16-DIN Male |
| 38HFDMDMxxx | | | | 7/16-DIN Male | 7/16-DIN Male |
| 78ST4SM4SMxxx | 7/8" | Standard - PE Jacket | DC-3.8 GHz | 4.3-10Screw Male | 4.3-10Screw Male |
| 78ST4SM4SMxxx | | | | 4.3-10Screw Male | 7/16-DIN Male |
| 78STDMDMxxx | | | | 7/16-DIN Male | 7/16-DIN Male |
| 11ST4SM4SMxxx | 1-1/4" | Standard - PE Jacket | DC-3.8 GHz | 4.3-10Screw Male | 4.3-10Screw Male |
| 11ST4SM4SMxxx | | | | 4.3-10Screw Male | 7/16-DIN Male |
| 11STDMDMxxx | | | | 7/16-DIN Male | 7/16-DIN Male |

Nomenclature Guide for RF Connectors

AC - 12SWA - 4HMR

1 2 3 4



| 1 Product Type | 2 For Cable Size | 3 For Cable Type | 4 Connector Type |
|--------------------|------------------|-------------------------------------|--|
| AC = RF Connectors | 11 = 1 - 1/4" | HF = Superflexible | 4SF = 4.3-10 Screw Female 4PMR = 4.3-10 Push/Pull Male Right Angle |
| | 12 = 1/2" | ST = Standard | 4SFR = 4.3-10 Screw Female Right Angle DF = 7/16-DIN Female |
| | 14 = 1/4" | SWA = Smooth Wall Aluminum | 4HF = 4.3-10 Hand Screw Female DFR = 7/16-DIN Female Right Angle |
| | 15 = 1 - 5/8" | 00 = No additional type designation | 4HFR = 4.3-10 Hand Screw Female Right Angle DM = 7/16-DIN Male |
| | 21 = 2 - 1/4" | | 4HM = 4.3-10 Hand Screw Male DMR = 7/16-DIN Male Right Angle |
| | 38 = 3/8" | | 4HMR = 4.3-10 Hand Screw Male Right Angle NF = N Female |
| | 58 = 5/8" | | 4SM = 4.3-10 Screw Male NFR = N Female Right Angle |
| | 78 = 7/8" | | 4SMR = 4.3-10 Screw Male Right Angle NM = N Male |
| | L3 = LMR300 | | 4PF = 4.3-10 Push/Pull Female NMR = N Male Right Angle |
| | L4 = LMR400 | | 4PFR = 4.3-10 Push/Pull Female Right Angle THMR = TNC Type HandScrew Male Right Angle |
| | K4 = KSR400 | | 4PM = 4.3-10 Push/Pull Male |

RF Connector Product Reference

| Model | Cable Size | Cable Type | Frequency | Connector Type | Installation Type | | |
|----------------|------------|---------------------------|------------|-------------------------------|--------------------|-----------------|---------------|
| AC-12HF-4SM-F | 1/2" | Superflexible - PE Jacket | DC-3.8 GHz | 4.3-10 Screw Male | Assembly | | |
| AC-12HF-4SM-MM | | | DC-6 GHz | 4.3-10 Screw Male | Assembly | | |
| AC-12HF-4SMR | | | DC-3.8 GHz | 4.3-10 Screw Male Right Angle | Assembly | | |
| AC-12HF-4SF | | | DC-3.8 GHz | 4.3-10 Screw Female | Assembly | | |
| AC-12HF-DM | | | DC-3 GHz | 7/16-DIN Male | Assembly | | |
| AC-12HF-DMR | | | DC-3 GHz | 7/16-DIN Male Right Angle | Assembly | | |
| AC-12HF-NM | | | DC-3 GHz | N Male | Assembly | | |
| AC-12ST-4SM | | Standard - PE Jacket | | DC-6 GHz | 4.3-10 Screw Male | Assembly | |
| AC-12ST-DM | | | | DC-3 GHz | 7/16-DIN Male | Assembly | |
| AC-12ST-DMR | | | | DC-3 GHz | 7/16-DIN Male | Assembly | |
| AC-12ST-NM | | | | DC-3 GHz | N Male | Assembly | |
| AC-12ST-NMR | | | | DC-3 GHz | N Male Right Angle | Assembly | |
| AC-12ST-NF | | | | DC-3 GHz | N Female | Assembly | |
| AC-78ST-DM | | | | 7/8" | | DC-3 GHz | 7/16-DIN Male |
| AC-78ST-DF | DC-3 GHz | | | | | 7/16-DIN Female | Assembly |
| AC-78ST-NM | DC-3 GHz | | | | | N Female | Assembly |
| AC-11ST-DM | 1 - 1/4" | | | | DC-3 GHz | 7/16-DIN Female | Assembly |



Nomenclature Guide for RF Adaptors

AD - DX4SF4SM

1 2 3 4 5

| 1 Product Type | 2 Frequency Range | 3 PIM Level |
|----------------|---|--|
| AD = Adaptor | D = DC-3 GHz L = 350-2700 MHz M = 555-2700 or 698-2700 MHz H = 698-4000 MHz I = 824-960 & 1710-2690 MHz B = DC-6 GHz | H = High PIM [≥ -149 dBc] N = Normal PIM [≤ -150 dBc] L = Low PIM [≤ -153 dBc] G = Great PIM [≤ -155 dBc] X = Excellent PIM [≤ -160 dBc] |

| 4 Connector A | | 5 Connector B | |
|---|---------------------------------------|---|---------------------------------------|
| 4SF = 4.3-10Screw Female | 4PM = 4.3-10Push/Pull Male | 4SF = 4.3-10Screw Female | 4PM = 4.3-10Push/Pull Male |
| 4FR = 4.3-10Screw Female RightAngle | PMR = 4.3-10Push/Pull Male RightAngle | 4FR = 4.3-10Screw Female RightAngle | PMR = 4.3-10Push/Pull Male RightAngle |
| 4HF = 4.3-10Hand Screw Female | DF = 7/16-DIN Female | 4HF = 4.3-10Hand Screw Female | DF = 7/16-DIN Female |
| HFR = 4.3-10Hand Screw Female Right Angle | DFR = 7/16-DIN Female RightAngle | HFR = 4.3-10Hand Screw Female Right Angle | DFR = 7/16-DIN Female RightAngle |
| 4HM = 4.3-10Hand Screw Male | DM = 7/16-DIN Male | 4HM = 4.3-10Hand Screw Male | DM = 7/16-DIN Male |
| HMR = 4.3-10HandScrew Male Right Angle | DMR = 7/16-DIN Male RightAngle | HMR = 4.3-10HandScrew Male Right Angle | DMR = 7/16-DIN Male RightAngle |
| 4SM = 4.3-10Screw Male | NF = N Female | 4SM = 4.3-10Screw Male | NF = N Female |
| 4MR = 4.3-10Screw Male RightAngle | NFR = N Female Right Angle | 4MR = 4.3-10Screw Male RightAngle | NFR = N Female Right Angle |
| 4PF = 4.3-10Push/Pull Female | NM = N Male | 4PF = 4.3-10Push/Pull Female | NM = N Male |
| PFR = 4.3-10Push/Pull Female Right Angle | NMR = N Male Right Angle | PFR = 4.3-10Push/Pull Female Right Angle | NMR = N Male Right Angle |

RF Adaptor Product Reference

| Model | Frequency | Connector A Type | Connector B Type |
|-------------|-----------|---------------------|----------------------|
| AD-DXNMNFR | DC-3 GHz | N Male | N Female Right Angle |
| AD-DHNMRF | | N Male RightAngle | N Female |
| AD-BX4SFD | DC-6 GHz | 4.3-10 Screw Female | 7/16-DIN Male |
| AD-BX4SFNM | | 4.3-10 Screw Female | N Male |
| AD-BX4SMNM | | 4.3-10 Screw Male | N Male |
| AD-BXDFDF-F | | 7/16-DIN Female | 7/16-DIN Female |

Nomenclature Guide for Feeder Cable

AAF - 1 2 - ST - IOAL

1 2 3 4

| 1 Product Type | 2 Cable Size | 3 For Cable Type | 4 Conductor Material |
|--------------------|---------------|---|--|
| AAF = Feeder Cable | 11 = 1 - 1/4" | HF = Superflexible | No Designator = Copper inner & outer conductor |
| | 12 = 1/2" | HFF = Superflexible Fire Resistant | IOAL = Aluminum-tape inner & outer conductor |
| | 14 = 1/4" | HFR = Superflexible Flame Retardant | OAL = Copper inner & aluminum-tape outer conductor |
| | 15 = 1 - 5/8" | HFS = Superflexible Fire Resistant Low Smoke | |
| | 21 = 2 - 1/4" | HRS = Superflexible Flame Retardant Low Smoke | |
| | 38 = 3/8" | SFS = Standard Fire Resistant Low Smoke | |
| | 58 = 5/8" | SRS = Standard Flame Retardant Low Smoke | |
| | 78 = 7/8" | ST = Standard | |
| | L3 = LMR300 | STF = Standard Fire Resistant | |
| | L4 = LMR400 | STR = Standard Flame Retardant | |
| | 8U = RG8/U | | |



Feeder Cable Product Reference

| Model | Cable Size | Cable Type | Frequency | Conductor Material | | Material | |
|---------------|------------|---------------|-------------|---------------------------|--|------------------------------------|---------------------------------|
| | | | | Inner | Outer | Dielectric | Jacket |
| AAF-12-HF | 1/2" | Superflexible | DC-10.2 GHz | Copper-Clad Aluminum Wire | Copper-tape, Longitudinal Welded Spiral Corrugation | Foamed Polyethylene (PE) with Skin | Black Polyethylene, PE |
| AAF-12-ST | | Standard | DC-8.8 GHz | Copper-Clad Aluminum Wire | Copper-tape, Longitudinal Welded Annular Corrugation | Foamed Polyethylene (PE) with Skin | Black Polyethylene, PE |
| AAF-12ST-IOAL | | Standard | DC-8.8 GHz | Copper-Clad Aluminum Wire | Aluminum-tape, Longitudinal Welded Annular Corrugation | Foamed Polyethylene (PE) | Black Polyethylene, PE |
| AAF-78-ST | 7/8" | Standard | DC-5 GHz | Copper Tube | Copper-tape, Longitudinal Welded Annular Corrugation | Foamed Polyethylene (PE) with Skin | Black Polyethylene, PE |
| AAF-78-ST-OAL | | Standard | DC-5.2 GHz | Copper Tube | Aluminum-tape, Longitudinal Welded Annular Corrugation | Foamed Polyethylene (PE) with Skin | Black Polyethylene, PE |
| AAF-11-ST | 1 - 1/4" | Standard | DC-3 GHz | Copper Tube | Annular Corrugated Copper Tube | Foamed Polyethylene (PE) | LLDPE (wall thickness > 1.2 mm) |

Nomenclature Guide for Weather-proofing Boots

Cable to Panel Boots = **WRB-12HF4SF**
1 2 3 4

Cable to Cable Boots = **B-12-14-0001**
1 2 3 4



| | | |
|--|---|---|
| <p>1 Product Type</p> <p>WRB = Cable-to-Panel Boot</p> <p>B = Cable-to-Cable Boot</p> | <p>2 Cable Size A</p> <p>11 = 1 - 1/4"</p> <p>12 = 1/2"</p> <p>14 = 1/4"</p> <p>15 = 1 - 5/8"</p> <p>21 = 2 - 1/4"</p> <p>38 = 3/8"</p> <p>58 = 5/8"</p> <p>78 = 7/8"</p> | <p>3 Cable Type A</p> <p>HF = Superflexible</p> <p>ST = Standard</p> |
| <p>4 Connector A [for Cable to Panel Boots]</p> <p>4SF = 4.3-10Screw Female 4PM = 4.3-10Push/Pull Male</p> <p>4SFR = 4.3-10Screw Female Right Angle 4PMR = 4.3-10Push/Pull Male Right Angle</p> <p>4HF = 4.3-10Hand Screw Female DF = 7/16-DIN Female</p> <p>4HFR = 4.3-10Hand Screw Female Right Angle DFR = 7/16-DIN Female Right Angle</p> <p>4HM = 4.3-10Hand Screw Male DM = 7/16-DIN Male</p> <p>4HMR = 4.3-10Hand Screw Male Right Angle DMR = 7/16-DIN Male Right Angle</p> <p>4SM = 4.3-10Screw Male NF = N Female</p> <p>4SMR = 4.3-10Screw Male Right Angle NFR = N Female Right Angle</p> <p>4PF = 4.3-10Push/Pull Female NM = N Male</p> <p>4PFR = 4.3-10Push/Pull Female Right Angle NMR = N Male Right Angle</p> | <p>5 Cable Size B [for Cable to Cable Boots]</p> <p>11 = 1 - 1/4"</p> <p>12 = 1/2"</p> <p>14 = 1/4"</p> <p>15 = 1 - 5/8"</p> <p>21 = 2 - 1/4"</p> <p>38 = 3/8"</p> <p>58 = 5/8"</p> <p>78 = 7/8"</p> | <p>6 Series Number [for Cable to Cable Boots]</p> <p>Series code number has no direct correlation to individual specifications</p> |

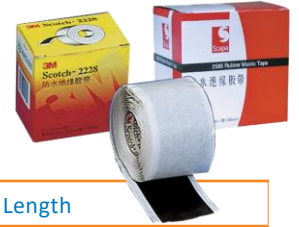
Weather-proofing Boot Product Reference

| Model | Type | Cable Type A | Connector Type A | Cable B Size (if applicable) | Connector B Type (if applicable) |
|----------------|----------------|--------------------|------------------|------------------------------|----------------------------------|
| WRB-12HFD-M-F | Cable to Panel | 1/2" Superflexible | 7/16-DIN Male | --- | --- |
| WRB-12STD-M-F | Cable to Panel | 1/2" Standard | 7/16-DIN Male | --- | --- |
| WRB-12STNM-F | Cable to Panel | 1/2" Standard | N Male | --- | --- |
| B-12-78-0001-F | Cable to Cable | 1/2" Superflexible | 7/16-DIN Male | 7/8" Standard | 7/16-DIN Male |

Nomenclature Guide for Weather-proofing Tape

AWPT-M51W06M

1 2 3 4



| 1 Product Type | 2 Tape Type | 3 Tape Width | 4 Tape Length |
|-----------------------------|----------------------------|--|---|
| AWPT = Weatherproofing Tape | M = Mastic A = Adhesive | 19 W = 19 mm 51 W = 51 mm 60 W = 60 mm 63 W = 63 mm | 06M = 0.6 meters 006 = 6 meters 020 = 20 meters |

Weather-proofing Tape Product Reference

| Model | Tape Type | Thickness | Width | Length |
|----------------|-----------------------|--|--|--|
| AWPT-A51W006-F | Adhesive | 0.19 ± 0.01 mm | 50.8 ± 0.5mm | 6000 ± 50mm |
| AWPT-M63W06M-F | Mastic | 2.5 ± 0.25 mm | 63 ± 2.5 mm | 600 ± 50mm |
| AWPTK-001 | Adhesive & Mastic Kit | (1x) 0.19 ± 0.01 mm (2x) 0.19 ± 0.01 mm (6x) 2.5 ± 0.25 mm | (1x) 50.8 ± 0.5 mm (2x) 19 ± 0.5mm (6x) 63 ± 2.5mm | (1x) 6.0 ± 0.05 mm (2x) 20 ± 0.05 mm (6x) 600 ± 50mm |



Nomenclature Guide for Grounding Kits

AAGK-12-15ST

1 2 3 4

| 1 Product Type | 2 Cable Size | 3 Second Cable Size | 4 Cable Type |
|----------------------|---|--|---|
| AAGK = Grounding Kit | 11 = 1-1/4" 12 = 1/2" 14 = 1/4" 15 = 1-5/8" 21 = 2-1/4" 38 = 3/8" 58 = 5/8" 78 = 7/8" K4 = KSR400 | Leave Blank for Non Adjustable Kits -11 = 1-1/4" -12 = 1/2" -14 = 1/4" -15 = 1-5/8" -21 = 2-1/4" -38 = 3/8" -58 = 5/8" -78 = 7/8" K4 = KSR400 | CC = Corrugated HC = Helical HF = Superflexible Coaxial ST = Standard Coaxial PL = Plenum |

Grounding Kit Product Reference

| Model | Description | Cable Size | Cable Length |
|----------------|---|----------------|--------------|
| AAGK-12-15ST-F | 1/2" to 1-5/8" Grounding Kit | 1/2" to 1-5/8" | 1.524 m |
| AAGK-78ST-F | 7/8" Standard Coaxial Cable Grounding Kit | 7/8" | 0.6 m |

Nomenclature Guide for Feeder Clamps

AFC - 525 - SH - 6 - C

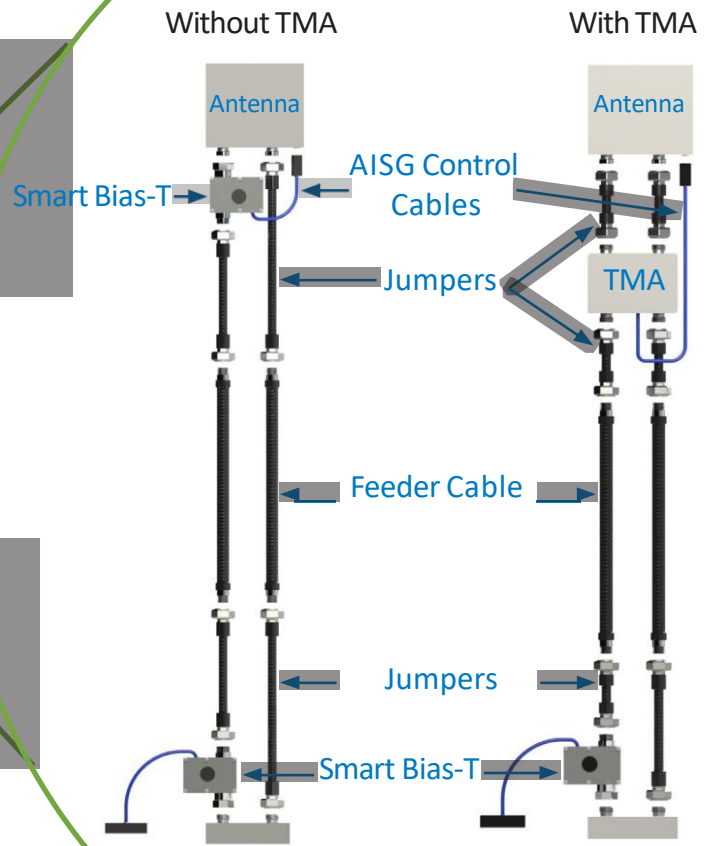
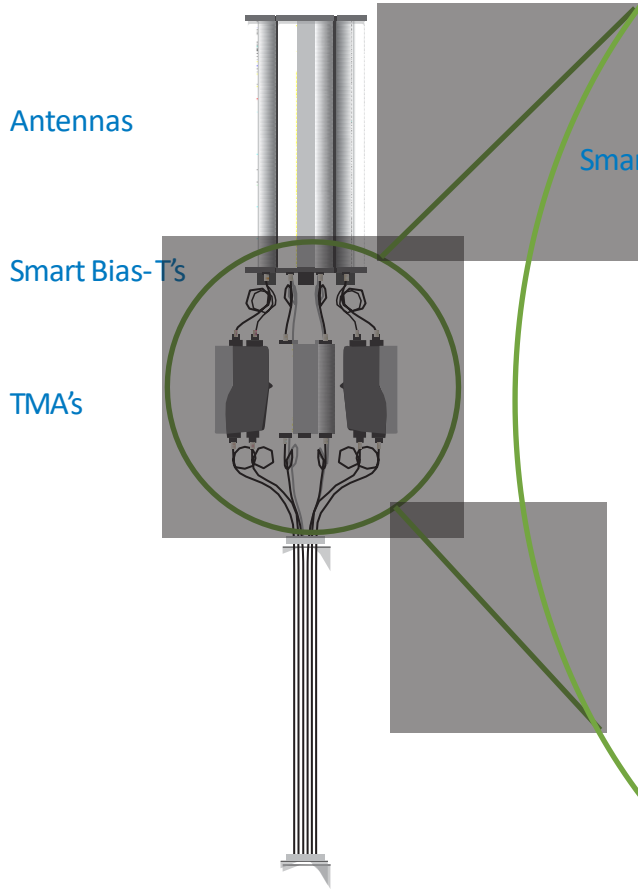
1
2
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4
5

| 1 Product Type | 2 For Cable Size | 3 Hanger Type | 4 Total Number of Cables | 5 Special Features (if needed) |
|------------------------------|---|--|---|---|
| AFC = Feeder Clamp [Hangers] | 11 = 1-1/4" 12 = 1/2" 14 = 1/4" 15 = 1-5/8" 21 = 2-1/4" 38 = 3/8" 525 = Ø5 mm/Ø25 mm 58 = 5/8" 78 = 7/8" K4 = KSR400 | SH = Single Hanger DH = Double Hanger | 1 = 1 Cable 2 = 2 Cables 3 = 3 Cables 4 = 4 Cables 5 = 5 Cables 6 = 6 Cables 7 = 7 Cables 8 = 8 Cables | L = Leakage Cable C = Combined Clamp |

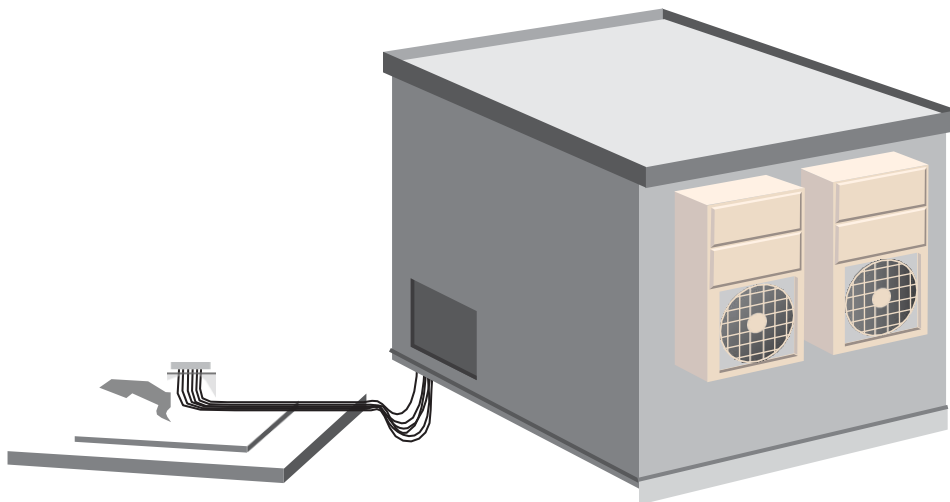


Feeder Clamp Product Reference

| Model | Cable Size | Cable Type | Hanger Type | Stack Type | Total Number of Cables |
|----------------|--------------|--------------------------|-------------|------------|-------------------------|
| AFC-11-SH-1-L | 1-1/4" | Leakage Cable | Single | Single | 1 |
| AFC-11-SH-2 | 1-1/4" | Feeder Cable | Single | Double | 2 |
| AFC-12-SH-1 | 1/2" | Feeder Cable | Single | Single | 1 |
| AFC-525-SH-9-C | Ø25 mm/Ø5 mm | Combined - Power & Fiber | Single | Triple | 3 (Ø25 mm) 6 (Ø5 mm) |
| AFC-78-DH-6 | 7/8" | Feeder Cable | Double | Triple | 6 |
| AFC-78-SH-2 | 7/8" | Feeder Cable | Single | Double | 2 |



Combiners



Tower Mounted Amplifiers (TMAs)



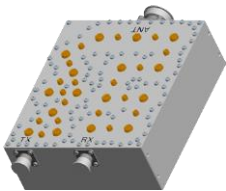
Operators know that a cost-effective solution to maximizing site coverage and boosting call quality is through the use of **Tower Mounted Amplifiers (TMAs)**. Amphenol offers a global portfolio of single-band, multi-band and integrated filter designs to provide uplink amplification and support. Compatible power distribution units and Bias-Ts complete the solution.

Combiners



Amphenol's **Combiners** allow operators to combine multiple frequencies onto a single run of coax reducing overall costs, wind loads and weight in a streamlined arrangement. Diplexers, triplexers and quadruplexers are available for 2G, 3G and LTE systems and are designed for low insertion loss to ensure minimal impact on the overall system.

Duplexers



Duplexers allow the use of a single antenna by both transmitter and receiver, coupling the transmitter and receiver to the antenna while producing isolation between the two.

Smart Bias-T's



Amphenol's **Smart Bias-T** products, are used in place of traditional AISG "Home Run" cables. The Smart Bias-T eliminates the need for the home run cable by integrating DC power and AISG control signals onto the coaxial feeder line. If a TMA is not used, two Bias-T's are typically required—one at the bottom of the tower and one at the top.

AISG Control Cables



Amphenol Antenna Solutions **control cables** are compliant to AISG standards and are offered in many different lengths.

Tower Mounted Amplifier Product Reference

Single Band TMA's

| Family Model Name | Description | Frequency Range | | Ports | | Gain (dB) |
|-------------------|--|-----------------|---------------|-------|---------|-----------|
| | | Uplink | Downlink | BTS | Antenna | |
| TTA-CBG100H | 700 MHz, Twin TMA, AISG v2.0, Fixed Gain | 703-738 MHz | 758-793 MHz | 2 | 2 | 12 |
| TTA-CBG110H | 700 MHz, Twin TMA, AISG v2.0, Fixed Gain | 718-748 MHz | 773-803 MHz | 2 | 2 | 12 |
| TTA-LCG100H | 800 MHz, Twin TMA, AISG v2.0, Fixed Gain | 832-862 MHz | 791-821 MHz | 2 | 2 | 12 |
| TTA-CLG100H | 850 MHz, Compact Twin TMA, AISG v2.0, Fixed Gain | 824-849 MHz | 869-894 MHz | 2 | 2 | 12 |
| TTA-GLG120H | 900 E-GSM, Twin TMA, AISG v2.0, Fixed Gain | 880-915 MHz | 925-960 MHz | 2 | 2 | 12 |
| TTA-GLN100L-S | 900 MHz, Compact Single TMA, Fixed Gain | 890-915 MHz | 935-960 MHz | 1 | 1 | 12 |
| TTA-GHG100H | 1800 MHz, Twin TMA, AISG v2.0, Fixed Gain | 1710-1785 MHz | 1805-1880 MHz | 2 | 2 | 12 |
| TTA-UMG101H | UMTS, Twin TMA, AISG v2.0, Fixed Gain | 1920-1980 MHz | 2110-2170 MHz | 2 | 2 | 12 |
| TTA-LBG100H | LTE 2600, Twin TMA, AISG v2.0, Fixed Gain | 2500-2570 MHz | 2620-2690 MHz | 2 | 2 | 12 |
| TTA-ASG100H | AWS, Twin TMA, AISG v2.0, Fixed Gain | 1710-1770 MHz | 2110-2170 MHz | 2 | 2 | 12 |
| TTA-PSG100H | 1900 MHz, Twin TMA, AISG v2.0, Fixed Gain | 1850-1910 MHz | 1930-1990 MHz | 2 | 2 | 12 |
| TTA-CBG100K | 700 MHz, Twin TMA, AISG v2.0, Fixed & Adjustable Gain | 703-748 MHz | 758-803 MHz | 2 | 2 | 12 (8-16) |
| TTA-LCG100K | 800 MHz, Twin TMA, AISG v2.0, Fixed & Adjustable Gain | 832-862 MHz | 791-821 MHz | 2 | 2 | 12 |
| TTA-CLG100K | 850 MHz, Twin TMA, AISG v2.0, Fixed & Adjustable Gain | 824-849 MHz | 869-894 MHz | 2 | 2 | 12 (8-16) |
| TTA-GLG100K | 900 MHz, Twin TMA, AISG v2.0, Fixed & Adjustable Gain | 890-915 MHz | 935-960 MHz | 2 | 2 | 12 (8-16) |
| TTA-GLG110K | 900 MHz, Twin TMA, AISG v2.0, Fixed & Adjustable Gain | 880-915 MHz | 925-960 MHz | 2 | 2 | 12 (8-16) |
| TTA-ASW100H | AWS w/700 Bypass, Twin TMA, AISG v1.1 or v2.0, Fixed Gain | 1710-1770 MHz | 2110-2170 MHz | 2 | 2 | 12 |
| TTA-PSW100H | 1900 MHz w/700 & 850 Bypass, Twin TMA, AISG v1.1 or v2.0, Fixed Gain | 1850-1910 MHz | 1930-1990 MHz | 2 | 2 | 12 |



RF Conditioning Products

| Dual Band TMA's | | | | | | |
|-------------------|---|-------------------------|-------------------------|-------|---------|-----------|
| Family Model Name | Description | Frequency Range | | Ports | | Gain (dB) |
| | | Uplink | Downlink | BTS | Antenna | |
| TTA-DA100x | 700/800, Twin TMA, AISG v2.0, Fixed Gain | 703-733/832-862 MHz | 758-788/791-821 MHz | 2 | 2 | 12 |
| TTA-DB101x | 700/900, Twin TMA, AISG v2.0, Fixed Gain | 703-733/880-915 MHz | 743-788/925-960 MHz | 2 | 2 | 12 |
| TTA-DB102x | 700/900, Twin TMA, AISG v2.0, Fixed Gain | 713-743/880-915 MHz | 753-798/925-960 MHz | 2 | 2 | 12 |
| TTA-DB103x | 700/900, Twin TMA, AISG v2.0, Fixed Gain | 723-753/880-915 MHz | 763-803/925-960 MHz | 2 | 2 | 12 |
| TTA-DD100x | 800/900 MHz, Twin TMA, AISG v1.1 or v2.0, Fixed Gain | 832-862/880-915 MHz | 791-821/925-960 MHz | 2 | 4 | 12 |
| TTA-DD101x | 800/900 MHz, Twin TMA, AISG v2.0, Fixed Gain | 832-862/880-915 MHz | 791-821/925-960 MHz | 2 | 2 | 12 |
| TTA-DN110x | GSM1800/UMTS2100, Twin TMA, AISG v2.0, Fixed Gain | 1710-1785/1920-1980 MHz | 1805-1880/2110-2170 MHz | 2 | 4 | 12 |
| TTA-DN1xxN | GSM1800/UMTS2100, Twin TMA, AISG v2.0, Fixed Gain | 1710-1785/1920-1980 MHz | 1805-1880/2110-2170 MHz | 4 | 2 | 12 |
| TTA-DN1xxx | GSM1800/UMTS2100, Twin TMA, AISG v1.1 or v2.0, Fixed Gain | 1710-1785/1920-1980 MHz | 1805-1880/2110-2170 MHz | 2 | 2 | 12 |
| TTA-DU100x | 1800/2600 MHz, Twin TMA, AISG v1.1 or v2.0, Fixed Gain | 1710-1785/2500-2570 MHz | 1805-1880/2620-2690 MHz | 2 | 2 | 12 |
| TTA-DU1xxx | 1800/2600 MHz, Twin TMA, AISG v2.0, Fixed Gain | 1710-1785/2500-2570 MHz | 1805-1880/2620-2690 MHz | 2 | 4 | 12 |
| TTA-DV100x | 2100/2600 MHz, Twin TMA, AISG v2.0, Fixed Gain | 1920-1980/2500-2570 MHz | 2110-2170/2620-2690 MHz | 2 | 2 | 12 |
| TTA-DV10xx | 2100/2600 MHz Twin TMA AISG v2.0 Fixed Gain | 1920-1980/2500-2570 MHz | 2110-2170/2620-2690 MHz | 2 | 2 | 12 |
| TTA-DV101x | 2100/2600 MHz, Twin TMA, AISG v1.1 or v2.0, Fixed Gain | 1920-1980/2500-2570 MHz | 2110-2170/2620-2690 MHz | 2 | 4 | 12 |

| Triple Band TMA's | | | | | | |
|-------------------|---|-----------------------------------|-----------------------------------|-------|---------|-----------|
| Family Model Name | Description | Frequency Range | | Ports | | Gain (dB) |
| | | Uplink | Downlink | BTS | Antenna | |
| TTA-TU100x | 1800/2100/2600 MHz, Twin TMA, AISG v2.0, Fixed Gain | 1710-1785/1920-1980/2500-2570 MHz | 1805-1880/2110-2170/2620-2690 MHz | 2 | 2 | 12 |
| TTA-TU110x | 1800/2100/2600 MHz, Twin TMA, AISG v2.0, Fixed Gain | 1710-1785/1920-1980/2500-2570 MHz | 1805-1880/2110-2170/2620-2690 MHz | 2 | 4 | 12 |
| TTA-TB100x | 700/800/900 MHz, Twin TMA, AISG v2.0, Fixed Gain, Single Mode or Independent AISG | 703-733/832-862/880-915 MHz | 758-788/791-821/925-960 MHz | 2 | 2 | 12 |
| TTA-TL100N | 1800 & 2100/2600 MHz, Twin TMA, AISG v2.0, Fixed Gain, Independent AISG | 1710-1785/1920-1980/2500-2570 MHz | 1805-1880/2110-2170/2620-2690 MHz | 2 | 4 | 12 |

Multiplexer Product Reference

| Diplexers | | |
|-------------------|--|--|
| Family Model Name | Description | Frequency Range |
| DPX-07x | Diplexer, PCS/AWS, Single and Twin Units, Indoor/Outdoor | 1695-1780 & 2110-2200/1850-1910 & 1930-1995MHz |
| DPX-08x | Diplexer, 700/800, Single and Twin Units, Indoor/Outdoor | 703-778/791-862MHz |
| DPX-09x | Diplexer, 700/800, Single and Twin Units, Indoor/Outdoor | 713-778/801-862MHz |
| DPX-11x | Diplexer, 1800/2100, Single and Twin Units, Indoor/Outdoor | 1710-1880/1920-2170MHz |
| DPX-12x | Diplexer, 1800+2100/2600, Single and Twin Units, Indoor/Outdoor | 1695-2170/2496-2690MHz |
| DPX-13x | Diplexer, 800/900, Single and Twin Units, Indoor/Outdoor | 791-862/880-960MHz |
| DPX-13x-JJ | Diplexer, 700+800/900, Single and Twin Units, Indoor/Outdoor | 690-862/ 880-960MHz |
| DPX-17x | Diplexer, AWS/2300, Single and Dual Units, Indoor/Outdoor | 1710-2170/2300-2400MHz |
| DPX-19x | Diplexer, 555-960MHz/1695-2690MHz, Single and Twin Units, Indoor/Outdoor | 555-960/1695-2690MHz |
| DPX-19x-JJ | Diplexer, 470-960MHz/1695-2700MHz, Single and Twin Units, Indoor/Outdoor | 470-960/1695-2700MHz |
| DPX-23x | Diplexer, AWS/2300-2700MHz, Single and Twin Units, Indoor/Outdoor | 1695-2180/2300-2700MHz |
| DPX-24x | Diplexer, 700/850+900, Single and Twin Units, Indoor/Outdoor | 698-806/824-960MHz |
| DPX-25x | Diplexer, 1800/2100+2300, Single and Twin Units, Indoor/Outdoor | 1710-1880/1920-2170&2300-2400MHz |
| DPX-26x | Diplexer, AWS/PCS, Single and Twin Units, Indoor/Outdoor | 1695-1780&2110-2200/1850-1990MHz |
| DPX-27x | Diplexer, 600/700, Single Unit, Indoor/Outdoor | 617-697.75/699.25-746MHz |
| DPX-27x-JJ | Diplexer, 555-806MHz/824-960MHz, Single and Twin Units, Indoor/Outdoor | 555-806/824-960MHz |
| DPX-28x | Diplexer, 690-2180/2400-2700MHz, Single and Twin Units, Indoor/Outdoor | 690-2180/2400-2700MHz |
| DPX-29x | Diplexer, 380-2180/2400-2700MHz, Single and Twin Units, Indoor/Outdoor | 380-2180/2400-2700MHz |
| DPX-50x | Diplexer, 1695-2200/2300-2700MHz, Single and Twin Units, Indoor/Outdoor | 1695-2200/2300-2700MHz |



RF Conditioning Products

Triplexers

| Family Model Name | Description | Frequency Range |
|-------------------|---|-----------------------------------|
| TPX-10x | Triplexer, 800+900/1800/2100, Single and Twin Units, Indoor/Outdoor | 790-960/1710-1880/1920-2170 MHz |
| TPX-10x-JJ | Triplexer, 380-960/1800/2100, Single and Twin Units, Indoor/Outdoor | 380-960/1710-1880/1920-2200 MHz |
| TPX-11x | Triplexer, 700+800+900/1800+2100/2300+2600, Single and Twin Units, Indoor/Outdoor | 690-960/1695-2200/2300-2700 MHz |
| TPX-12x | Triplexer, 1800/2100/2600, Single and Twin Units, Indoor/Outdoor | 1710-1880/1920-2200/2300-2700 MHz |
| TPX-16x | Triplexer, 1800/2100/2600, Single and Twin Units, Indoor/Outdoor | 1710-1880/1920-2170/2300-2690 MHz |
| TPX-17x | Triplexer, 800/900/AWS, Single and Twin Units, Indoor/Outdoor | 790-862/880-960/1710-2170 MHz |
| TPX-18x | Triplexer, 690-862/880-960/1695-2700 MHz, Single and Twin Units, Indoor/Outdoor | 690-862/880-960/1695-2700 MHz |
| TPX-19x | Triplexer, 700+800+900/1800/2100+2300+2600, Single and Twin Units, Indoor/Outdoor | 690-960/1710-1880/1920-2700 MHz |
| TPX-20x | Triplexer, 600-900/1700-2200/2300-2600, Single and Twin Units, Indoor/Outdoor | 555-960/1695-2200/2300-2700 MHz |

Quadruplexers

| Family Model Name | Description | Frequency Range |
|-------------------|--|---|
| QPX-11x | Quadruplexer, 1800/2100/2300/2600, Single and Twin Units, Indoor/Outdoor | 1710-1880/1920-2170/2300-2390/2500-2690 MHz |
| QPX-12x | Quadruplexer, 700+800+900/1800/2100/2300+2600, Single and Twin Units, Indoor/Outdoor | 698-960/1710-1880/1920-2170/2300-2690 MHz |
| QPX-13x | Quadruplexer, 800/900/1800+2100/2600, Single and Twin Units, Indoor/Outdoor | 790-862/880-960/1710-2170/2500-2690 MHz |
| QPX-14x | Quadruplexer, 800/900/1800/2100, Single and Twin Units, Indoor/Outdoor | 790-862/880-960/1710-1880/1920-2170 MHz |
| QPX-50x | Quadruplexer, 690-960/1710-1880/1920-2200/2300-2700 MHz, Single and Twin Units, Indoor/Outdoor | 690-960/1710-1880/1920-2200/2300-2700 MHz |
| QPX-51x | Quadruplexer, 690-960/1710-1880/1920-2170/2270-2700 MHz, Single and Twin Units, Indoor/Outdoor | 690-960/1710-1880/1920-2200/2270-2700 MHz |
| QPX-52x | Quadruplexer, 690-862/880-960/1710-1880/1920-2200 MHz, Single and Twin Units, Indoor/Outdoor | 690-862/880-960/1710-1880/1920-2200 MHz |



Filter Product Reference

Filters

| Family Model Name | Description | Pass Band | Rejection Band | Rejection | Unit Type | Connector |
|-------------------|---|---------------------------------|----------------|-----------|-------------|-----------------|
| FLT-151-JJ | 850 MHz, Rejection Filter | 695-803/898-960 MHz | 870-890 MHz | > 45dB | Twin Unit | 7/16-DIN Female |
| FLT-161-JJ | 900 MHz, Band Pass Filter | 898-960 MHz | 880-890 MHz | > 45dB | Twin Unit | 7/16-DIN Female |
| FLT-171-CC | WCDMA, Cavity Filter | 1920-1980/2110-2170 MHz | 1710-1880 MHz | ≥ 80 dB | Single Unit | N Female |
| FLT-177-JJ | GSM/UMTS900 with CDMA/UMTS/LTE800/850 Suppression, Band Pass Filter | 890-915/935-960 MHz | 824-888.5 MHz | > 40dB | Twin Unit | 7/16-DIN Female |
| FLT-178-JJ | LTE850 with GSM Suppression, Band Pass Filter | 824-894 MHz | 907.5-960 MHz | > 60dB | Twin Unit | 7/16-DIN Female |
| FLT-186-JJ | GSM900 with LTE850 Suppression, Band Pass Filter | 880-1-960 MHz | 869-879 MHz | > 41dB | Twin Unit | 7/16-DIN Female |
| FLT-187-JJ | 3500 MHz, Band Pass Filter | 3400-3600 MHz | 3300-3390 MHz | > 36dB | Twin Unit | 7/16-DIN Female |
| FLT-188-JJ | 3500 MHz, Band Pass Filter | 3432.5-3600 MHz | 3300-3400 MHz | > 58dB | Twin Unit | 4.3-10 Female |
| FLT-189-JJ | 3500 MHz, Band Pass Filter | 3432.5-3447.5/3532.5-3547.5 MHz | 3300-3400 MHz | > 58dB | Twin Unit | 7/16-DIN Female |
| FLT-190-JJ | GSM900 with LTE850 Suppression, Band Pass Filter | 897.2-960 MHz | 869-885 | > 55dB | Twin Unit | 7/16-DIN Female |

Same Band Combiner Product Reference

Filters

| Family Model Name | Description | Solution | Frequency Band | | PIM (2x43 dBm) |
|-------------------|--|--------------------------|-------------------------------|-------------------------------|----------------|
| | | | Channel 1 | Channel 2 | |
| AASBC-141 | 1800 MHz, Antenna Sharing Filter, DC/AISG Transparency, 7/16-DIN | Filter w/Guard Band | 1725-1740/1820-1835 MHz | 1745-1755/1840-1850 MHz | -160 |
| AASBC-15x | 2600 MHz, Same Band Combiner, DC/AISG Transparency, Single or Twin Units, 7/16-DIN or 4.3-10 | Filter w/Guard Band | 2540-2550/2660-2670 MHz | 2595-2615 MHz | -160 |
| AASBC-16x | 900 MHz, Same Band combiner, Twin unit, DC/AISG Transparency, 7/16-DIN | Filter w/Guard Band | 885-890/930-935 MHz | 905-915/950-960 MHz | -160 |
| AASBC-202 | 1800 MHz, Same Band Combiner, Single Unit, 7/16-DIN | Filter w/Guard Band | 1715-1730/1810-1825 MHz | 1750-1765/1845-1860 MHz | -160 |
| AASBC-701 | 2100 MHz, Same Band Combiner, Single Unit, 7/16-DIN | Filter w/Guard Band | 1920-1924.43/2110-2114.43 MHz | 1925.57-1935/2115.57-2125 MHz | -155 |
| AASBC-53x-JJ | 2500+2600 MHz, Same Band Combiner, Full DC/AISG Bypass, 7/16-DIN | Filter w/Guard Band | 2500-2520/2620-2640 MHz | 2530-2570/2650-2690 MHz | -155 |
| AASBC-52x-06 | 900 MHz, Same Band Combiner, DC/AISG Bypass, Single or Twin Units, 7/16-DIN | Filter w/Guard Band | 890.2-894.6/935.2-939.6 MHz | 905-914.8/950-959.8 MHz | -160 |
| AASBC-261x-06 | 2600 MHz Same Band Combiner, DC/AISG Bypass, Single or Twin Units, 7/16-DIN | Filter w/Guard Band | 2595-2615 MHz | 2540-2550/2660-2670 MHz | -160 |
| AASBC-26x-JJ | AWS, Same Band Combiner, Full DC/AISG Bypass, Single or Twin Units, 7/16-DIN | Filter w/Guard Band | 1710-1740/2110-2140 MHz | 1755-1780/2155-2180 MHz | -160 |
| AASBC-27x-JJ | 1940-1955/2130-2145 MHz & 1965-1980/2155-2170 MHz, Same Band Combiner, DC/AISG Bypass, Single Unit, 7/16-DIN | Filter w/Guard Band | 1940-1955/2130-2145 MHz | 1965-1980/2155-2170 MHz | -168 |
| AASBC-541 | 2600 MHz, Antenna Sharing Filter, AISG/DC Transparency, 7/16-DIN | Filter w/Guard Band | 2500-2520/2620-2640 MHz | 2530-2570/2650-2690 MHz | -160 |
| AASBC-131 | 1800 MHz, Antenna Sharing Filter, AISG/DC Transparency, 7/16-DIN | Filter w/Guard Band | 1710-1740/1805-1835 MHz | 1770-1785/1865-1880 MHz | -160 |
| TTA-GLG0310K | 890-915 (Rx) / 935 -960 (Tx) MHz - Active Same band Combiner, AISGv2.0, 7/16-DIN or 4.3-10 Connectors | Active Design in Rx Band | 890-915/935-960 MHz | 890-915/935-960 MHz | -160 |



Duplexer Product Reference

| Duplexers | | | | | |
|---------------|-------------------------|---------------|-----------|-----------------|--------------|
| Model | Frequency Range | Unit Quantity | Isolation | Connector Type | DC Bypass |
| DUP-GHG100-07 | 1710-1785/1805-1880 MHz | Single Unit | > 50dB | 7/16-DIN Female | No DC-Bypass |
| DUP-GLG100-07 | 890-915/935-960 MHz | Single Unit | > 50dB | 7/16-DIN Female | No DC-Bypass |
| DUP-UMG100-07 | 1920-1980/2110-2170 MHz | Single Unit | > 50dB | 7/16-DIN Female | No DC-Bypass |
| DUP-UMG101-07 | 1920-1980/2110-2170 MHz | Single Unit | > 80dB | 7/16-DIN Female | No DC-Bypass |
| DUP-UMG110-03 | 1920-1980/2110-2170 MHz | Single Unit | > 80dB | 7/16-DIN Female | No DC-Bypass |
| DUP-GLG101-FF | 890-915/935-960 MHz | Single Unit | > 70dB | 7/16-DIN Female | No DC-Bypass |

Smart Bias-T Product Reference

| Smart Bias-T's | | | | | |
|-------------------|-----------------|-----------------------|----------------------|-----------------------|-----------------------|
| Family Model Name | Frequency Range | Installation Position | Connector Input Type | Connector Output Type | RET Connector Type |
| SBT-5553800-MFF | 555-3800 MHz | Antenna | 4.3-10 Female | 4.3-10 Male | 8-Pin Circular Female |
| SBT-6962690-FFM | 698-2690 MHz | Antenna | 7/16-DIN Female | 7/16-DIN Female | 8-Pin Circular Male |
| SBT-6962690-MFM | 698-2690 MHz | Antenna | 7/16-DIN Female | 7/16-DIN Male | 8-Pin Circular Male |
| SBT-6962690-FMM | 698-2690 MHz | Antenna | 7/16-DIN Male | 7/16-DIN Female | 8-Pin Circular Male |
| SBT-6962690-FFF | 698-2690 MHz | Antenna | 7/16-DIN Female | 7/16-DIN Female | 8-Pin Circular Female |
| SBT-6962690-MFF | 698-2690 MHz | Antenna | 7/16-DIN Female | 7/16-DIN Male | 8-Pin Circular Female |
| SBT-6962690-FMF | 698-2690 MHz | Antenna | 7/16-DIN Male | 7/16-DIN Female | 8-Pin Circular Female |

AISG Control Cable Product Reference

| AISG Control Cables | | | | | |
|---------------------|--------------------|-----------------------------------|-------------------------------------|----------------------------------|--------------|
| Family Model Name | Connector Quantity | Connector A Type | Connector B Type | Connector C Type | Cable Length |
| CC-05-xxx-MRF | 2 | 8 pin Male Connector, Straight | 8 pin Female Connector, Right Angle | --- | 0.5-100 m |
| CC-05-xxx-MFV | 2 | 8 pin Male Connector, Straight | 8 pin Female Connector, Straight | --- | 0.3-100 m |
| CC-05-C30-FMF | 3 | 8 pin Female Connector, Straight | 8 pin Female Connector, Straight | 8 pin Female Connector, Straight | (3x) 0.3 m |
| CC-05-xxx-FM | 2 | 8 pin Male Connector, Right Angle | 8 pin Female Connector, Right Angle | --- | 0.5-100 m |

Hybrid Couplers



Hybrid Couplers are uniquely designed to separate input power equally among several outputs.

Directional Couplers



Amphenol offers broadband **directional couplers** for indoor applications. Operating from 350..4000 MHz. Available with 4.3-10, N-Type and 7/16-DIN Connectors, plus options available from 3 dB up to 40 dB.

Tappers



Tappers are designed to tap off a portion of the antenna's signal while allowing the rest of the signal to pass through with minimum loss.

Power Splitters



Power splitters split the signal evenly and with minimal loss and reflections. Designed for use with multi-band antennas, radiating cables and DAS applications.

Attenuators



Attenuators for coaxial loads with very low VSWR especially suitable for power hybrids, isolators, coaxial transmission lines, power monitors, watt meters and receiver multicouplers.

Termination Loads



Low VSWR **terminators** (or **termination loads**) shut off an open RF port.

DC Blocks



DC Stops and **blocks** are designed to block the flow of DC frequencies to RF signals.

POIs



Point of Interface (POI) products Combine and distribute multiband RF signals in an indoor distributed antenna system (DAS)

Nomenclature Guide for Hybrid Couplers

HC - x M X 22 - 43 M

1 2 3 4 5 6



| 1 Product Type | 2 Coupling Value | 3 Frequency | 4 PIM Level | 5 Connectors In/Out | 6 Connector Type |
|---------------------|--|--|--|--|--|
| HC = Hybrid Coupler | 2 = 2 dB 3 = 3 dB 5 = 5 dB 7 = 7 dB | D = DC-3 GHz L = 350-2700 MHz M = 555-2700 or 698-2700 MHz E = 600-3600 MHz H = 698-4000 MHz | H = High PIM [≥ -149 dBc] N = Normal PIM [≤ -150 dBc] L = Low PIM [≤ -153 dBc] G = Great PIM [≤ -155 dBc] X = Excellent PIM [≤ -160 dBc] | 21 = 2 In / 1 Out 22 = 2 In / 2 Out 42 = 4 In / 2 Out 44 = 4 In / 4 Out | 43F = 4.3-10 Female 43M = 4.3-10 Male DF = 7/16-DIN Female DM = 7/16-DIN Male NF = N-Type Female NM = N-Type Male |

Hybrid Coupler Product Reference

| Model | Frequency Range | Ports | | Coupling Value | Isolation | Connector Type | PIM (2x43 dBm) |
|-----------------|-----------------|-------|--------|----------------|--------------|-----------------|----------------|
| | | Input | Output | | | | |
| HC-3HG22-43F | 698-3600 MHz | 2 | 2 | 3 dB | ≥ 25 dB | 4.3-10 Female | < -155 dBc |
| HC-3LX22-NF-JJ | 340-2700 MHz | 2 | 2 | 3 dB | ≥ 23 dB | N Female | < -160 dBc |
| HC-3MX22-43F-JJ | 555-2700 MHz | 2 | 2 | 3 dB | ≥ 26 dB | 4.3-10 Female | < -160 dBc |
| HC-3LX22-43F | 400-2700 MHz | 2 | 2 | 3 dB | ≥ 25 dB | 4.3-10 Female | < -160 dBc |
| HC-3MN22-NF | 698-2700 MHz | 2 | 2 | 3 dB | ≥ 23 dB | N Female | < -150 dBc |
| HC-3MX22-43F | 698-2700 MHz | 2 | 2 | 3 dB | ≥ 25 dB | 4.3-10 Female | < -160 dBc |
| HC-3MX22-DF | 698-2700 MHz | 2 | 2 | 3 dB | ≥ 25 dB | 7/16-DIN Female | < -160 dBc |
| HC-4HG21-43F | 698-3600 MHz | 2 | 1 | 3.5 dB | ≥ 25 dB | 4.3-10 Female | < -155 dBc |
| HC-4MG21-DF | 698-2700 MHz | 2 | 1 | 3.5 dB | ≥ 25 dB | 7/16-DIN Female | < -155 dBc |
| HC-4MN22-NF | 698-2700 MHz | 2 | 2 | 3.5 dB | ≥ 25 dB | N Female | < -150 dBc |
| HC-4HN22-NF | 698-2700 MHz | 2 | 2 | 6 dB | ≥ 25 dB | N Female | < -150 dBc |
| HC-4MX21-43F | 698-2700 MHz | 2 | 1 | 3.5 dB | ≥ 25 dB | 4.3-10 Female | < -160 dBc |
| HC-4MX21-DF | 698-2700 MHz | 2 | 1 | 3.5 dB | ≥ 25 dB | 7/16-DIN Female | < -160 dBc |
| HC-6ML44-43F | 698-2700 MHz | 4 | 4 | 6.1 dB | ≥ 23 dB | 4.3-10 Female | < -153 dBc |
| HC-6ML44-DF | 698-2700 MHz | 4 | 4 | 6.1 dB | ≥ 23 dB | 7/16-DIN Female | < -153 dBc |
| HC-6ML44-NF | 698-2700 MHz | 4 | 4 | 6.1 dB | ≥ 23 dB | N Female | < -153 dBc |
| HC-7LL44-NF | 350-2700 MHz | 4 | 4 | 7.5 dB | ≥ 23 dB | N Female | < -153 dBc |
| HC-7MG44-DF | 698-2700 MHz | 4 | 4 | 6.8 dB | ≥ 25 dB | 7/16-DIN Female | < -155 dBc |
| HC-7ML44-NF | 698-2700 MHz | 4 | 4 | 6.8 dB | ≥ 25 dB | N Female | < -153 dBc |
| HC-7MN44-43F | 698-2700 MHz | 4 | 4 | 6.8 dB | ≥ 25 dB | 4.3-10 Female | < -150 dBc |
| HC-7MN44-DF | 698-2700 MHz | 4 | 4 | 6.9 dB | ≥ 23 dB | 7/16-DIN Female | < -150 dBc |
| HC-7MX44-43F | 698-2700 MHz | 4 | 4 | 6.8 dB | ≥ 25 dB | 4.3-10 Female | < -160 dBc |
| HC-7MX44-DF | 698-2700 MHz | 4 | 4 | 6.9 dB | ≥ 25 dB | 7/16-DIN Female | < -160 dBc |
| HC-9MG64-DF | 698-2700 MHz | 4 | 6 | 6.2 & 9.3 dB | ≥ 25 dB | 7/16-DIN Female | < -155 dBc |

DAS Passive Devices

Nomenclature Guide for Directional Couplers

DC - xx M X - 43 M

1 2 3 4 5



| 1 Product Type | 2 Coupling Value | 3 Frequency | 4 PIM Level | 5 Connector Type |
|--------------------------|---|--|--|--|
| DC = Directional Coupler | 03 = 3 dB 05 = 5 dB 06 = 6 dB 07 = 7 dB 08 = 8 dB 10 = 10 dB 13 = 13 dB 15 = 15 dB 20 = 20 dB 30 = 30 dB | L = 350-2700 M = 555-2700 or 698-2700 MHz H = 698-4000 MHz | H = High PIM [≥ -149 dBc] N = Normal PIM [≤ -150 dBc] L = Low PIM [≤ -153 dBc] G = Great PIM [≤ -155 dBc] X = Excellent PIM [≤ -160 dBc] | 43F = 4.3-10 Female 43M = 4.3-10 Male DF = 7/16-DIN Female DM = 7/16-DIN Male NF = N Female NM = N Male |

Directional Coupler Product Reference

| Model | Frequency Range | Connector Type | PIM (2x43 dBm) |
|----------------|-----------------|-----------------|----------------|
| DC-xxLL-NF-CC | 350-2700 MHz | N Female | < -153 dBc |
| DC-xxLN-NF-CC | 380-2700 MHz | N Female | < -150 dBc |
| DC-xxMX-43F-JJ | 550-2700 MHz | 4.3-10 Female | < -160 dBc |
| DC-xxMX-DF-JJ | | 7/16-DIN Female | < -160 dBc |
| DC-xxMX-NF-JJ | | N Female | < -160 dBc |
| DC-xxMN-NF-CC | 698-2700 MHz | N Female | < -150 dBc |
| DC-xxML-43F-CC | | 4.3-10 Female | < -153 dBc |
| DC-xxML-DF-CC | | 7/16-DIN Female | < -153 dBc |
| DC-xxML-NF-CC | | N Female | < -153 dBc |
| DC-xxMG-43F-CC | | 4.3-10 Female | < -155 dBc |
| DC-xxMG-DF-CC | | 7/16-DIN Female | < -155 dBc |
| DC-xxMX-43F-CC | | 4.3-10 Female | < -160 dBc |
| DC-xxMX-DF-CC | | 7/16-DIN Female | < -160 dBc |
| DC-xxHG-43F-CC | 698-4000 MHz | 4.3-10 Female | < -155 dBc |
| DC-xxHX-DF-CC | | 7/16-DIN Female | < -160 dBc |
| DC-xxHX-NF-CC | | N Female | < -160 dBc |

Nomenclature Guide for Tappers

TP - xxx - WBM - XP - 43F

1 2 3 4 5



| 1 Product Type | 2 Output Split Ratio | 3 Frequency | 4 PIM Level | 5 Connector Type |
|----------------|---|--|--|--|
| TP = Tapper | 03 = 3 dB 05 = 5 dB 06 = 6 dB 07 = 7 dB 08 = 8 dB 10 = 10 dB 13 = 13 dB 15 = 15 dB 20 = 20 dB 30 = 30 dB | L = 350-2700 MHz M = 555-2700 or 698-2700 MHz WBH = 698-4000 MHz | H = High PIM [\geq -149 dBc] N = Normal PIM [\leq -150 dBc] L = Low PIM [\leq -153 dBc] G = Great PIM [\leq -155 dBc] X = Excellent PIM [\leq -160 dBc] | 43F = 4.3-10 Female 43M = 4.3-10 Male DF = 7/16-DIN Female DM = 7/16-DIN Male NF = N-Type Female NM = N-Type Male |

DAS Passive Devices

Tapper Product Reference

| Model | Frequency Range | Connector Type | PIM (2x43 dBm) |
|----------------|-----------------|-----------------|-----------------|
| TP-xxLX-43F-CC | 400-2700 MHz | 4.3-10 Female | \leq -160 dBc |
| TP-xxLX-DF-CC | 400-2700 MHz | 7/16-DIN Female | \leq -160 dBc |
| TP-xxLX-43F-JJ | 350-2700 MHz | 4.3-10 Female | \leq -160 dBc |
| TP-xxLX-DF-JJ | 350-2700 MHz | 7/16-DIN Female | \leq -160 dBc |
| TP-xxLX-NF-JJ | 350-2700 MHz | N Female | \leq -160 dBc |
| TP-xxML-43F-CC | 698-2700 MHz | 4.3-10 Female | \leq -153 dBc |
| TP-xxML-DF-CC | 698-2700 MHz | 7/16-DIN Female | \leq -153 dBc |
| TP-xxML-NF-CC | 698-2700 MHz | N Female | \leq -153 dBc |
| TP-xxMX-43F-CC | 698-2700 MHz | 4.3-10 Female | < -160 dBc |

Nomenclature Guide for Splitters

SP - xx MX - 43F

1
2
3
4
5



| 1 Product Type | 2 Split Value | 3 Frequency | 4 PIM Level | 5 Connector Type |
|---------------------|--|--|--|--|
| SP = Power Splitter | 02 = 2 Way Split 03 = 3 Way Split 04 = 4 Way Split | L = 350-2700 M = 555-2700 or 698-2700 MHz H = 698-4000 MHz | H = High PIM [≥ -149 dBc] N = Normal PIM [≤ -150 dBc] L = Low PIM [≤ -153 dBc] G = Great PIM [≤ -155 dBc] X = Excellent PIM [≤ -160 dBc] | 43F = 4.3-10 Female 43M = 4.3-10 Male DF = 7/16-DIN Female DM = 7/16-DIN Male NF = N Female NM = N Male |

Splitter Product Reference

| Model | Frequency Range | Connector Type | Body Type | PIM (2x43 dBm) |
|-------------|-----------------|-----------------|-------------|-----------------|
| SP-xxLL-NF | 350-2700 MHz | N Female | Square Body | ≤ -153 dBc |
| SP-xxLN-NF | 380-2700 MHz | N Female | Square Body | ≤ -150 dBc |
| SP-xxLX-43F | 400-2700 MHz | 4.3-10 Female | Square Body | ≤ -160 dBc |
| SP-xxLX-DF | | 7/16-DIN Female | Square Body | ≤ -160 dBc |
| SP-xxLX-NF | | N Female | Square Body | ≤ -160 dBc |
| SP-xxML-43F | 555-2700 MHz | 4.3-10 Female | Square Body | ≤ -153 dBc |
| SP-xxML-NF | | N Female | Square Body | ≤ -153 dBc |
| SP-xxMN-DF | 698-2700 MHz | 7/16-DIN Female | Square Body | ≤ -150 dBc |
| SP-xxMN-NF | | N Female | Square Body | ≤ -150 dBc |
| SP-xxML-DF | | 7/16-DIN Female | Square Body | ≤ -153 dBc |
| SP-xxML-NF | | N Female | Square Body | ≤ -153 dBc |
| SP-xxMX-43F | | 4.3-10 Female | Square Body | ≤ -160 dBc |
| SP-xxMX-DF | | 7/16-DIN Female | Square Body | ≤ -160 dBc |
| SP-xxHL-43F | 698-3800 MHz | 4.3-10 Female | Square Body | ≤ -153 dBc |
| SP-xxHL-NF | | N Female | Square Body | ≤ -153 dBc |
| SP-xxHG-43F | | 4.3-10 Female | Square Body | ≤ -155 dBc |
| SP-xxHG-DF | | 7/16-DIN Female | Square Body | ≤ -155 dBc |
| SP-xxHX-DF | 698-4000 MHz | 7/16-DIN Female | Square Body | ≤ -160 dBc |

Nomenclature Guide for Attenuators

A-030-10-DH-43F43M

1 2 3 4 5 6 7



| 1 Product Type | 2 Power | 3 Attenuation Value | 4 Frequency | 5 PIM Level | 6 Connector 1 | 7 Connector 2 |
|----------------|--|--|--|--|--|--|
| A = Attenuator | 002 = 2 W 010 = 10 W 020 = 20 W 025 = 25 W 030 = 30 W 050 = 50 W 100 = 100 W | 03 = 3 dB 06 = 6 dB 10 = 10 dB 20 = 20 dB 30 = 30 dB 40 = 40 dB | D = DC-3 GHz M = 555-2700 or 698-2700 MHz | H = High PIM [≥ -149dBc] N = Normal PIM [≤ -150 dBc] L = Low PIM [≤ -153 dBc] G = Great PIM [≤ -155 dBc] X = Excellent PIM [≤ -160dBc] | 4F = 4.3-10 Female 4M = 4.3-10 Male DF = 7/16-DIN Female DM = 7/16-DIN Male NF = N-Type Female NM = N-Type Male | 4F = 4.3-10 Female 4M = 4.3-10 Male DF = 7/16-DIN Female DM = 7/16-DIN Male NF = N-Type Female NM = N-Type Male |

Attenuator Product Reference

| Model | Frequency Range | Attenuation Values (xx) | Average Input Power | Connector Type (yyzz) | PIM (2x43 dBm) |
|---------------|-----------------|---------------------------------------|---------------------|---|----------------|
| A-002xxDHyyzz | DC-3 GHz | 03, 06, 10, 15, 20, 30 dB | 2 W | N Male to N Female (NMNF), 4.3-10 Male to 4.3-10 Female (4M4F), 7/16-DIN Male to 7/16-DIN Female (DMDF) | -110 dBc |
| A-005xxDHyyzz | DC-3 GHz | 03, 06, 10, 15, 20, 30 dB | 5 W | N Male to N Female (NMNF), 4.3-10 Male to 4.3-10 Female (4M4F), 7/16-DIN Male to 7/16-DIN Female (DMDF) | -110 dBc |
| A-005xxMNyyzz | 698-2700 MHz | 03, 06, 10, 20, 30 dB | 5 W | N Male to N Female (NMNF), 4.3-10 Male to 4.3-10 Female (4M4F) | -150 dBc |
| A-010xxDHyyzz | DC-3 GHz | 03, 06, 10, 15, 20, 30 dB | 10 W | N Male to N Female (NMNF), 4.3-10 Male to 4.3-10 Female (4M4F), 7/16-DIN Male to 7/16-DIN Female (DMDF) | -110 dBc |
| A-010xxMXyyzz | 698-2700 MHz | 06, 10, 20, 30 dB | 10 W | N Male to N Female (NMNF), 4.3-10 Male to 4.3-10 Female (4M4F), 7/16-DIN Male to 7/16-DIN Female (DMDF) | -160 dBc |
| A-020xxDHyyzz | DC-3 GHz | 03, 06, 10, 15, 20, 30 dB | 20 W | N Male to N Female (NMNF), 4.3-10 Male to 4.3-10 Female (4M4F), 7/16-DIN Male to 7/16-DIN Female (DMDF) | -110 dBc |
| A-025xxDHyyzz | DC- 3 GHz | 03, 06, 10, 15, 20, 30 dB | 25 W | N Male to N Female (NMNF), 4.3-10 Male to 4.3-10 Female (4M4F), 7/16-DIN Male to 7/16-DIN Female (DMDF) | -110 dBc |
| A-030xxMXyyzz | 698-2700 MH | 03, 06, 10, 20, 30 dB | 30 W | N Female to N Female (NFNF), 4.3-10 Female to 4.3-10 Female (4F4F) | -160 dBc |
| A-050xxDHyyzz | DC-3 GHz | 03, 06, 10, 15, 20, 30 dB | 50 W | N Male to N Female (NMNF), 4.3-10 Male to 4.3-10 Female (4M4F), 7/16-DIN Male to 7/16-DIN Female (DMDF) | -110 dBc |
| A-050xxDXyyzz | DC-3 GHz | 03, 05, 06, 10, 15, 20, 30, 40, 50 dB | 50 W | N Male to N Female (NMNF), 7/16-DIN Male to 7/16-DIN Female (DMDF) | -160 dBc |
| A-050xxMNyyzz | 698-2700 MHz | 03, 06, 10, 20, 30 dB | 50 W | N Male to N Female (NMNF), 7/16-DIN Male to 7/16-DIN Female (DMDF) | -150 dBc |
| A-050xxMXyyzz | 698-2700 MHz | 03, 06, 10, 20, 30 dB | 50 W | N Female to N Female (NFNF), 4.3-10 Female to 4.3-10 Female (4F4F), 4.3-10 Male to 4.3-10 Female (4M4F) | -160 dBc |
| A-100xxMXyyzz | 698-2700 MHz | 10, 20, 40 dB | 100 W | 4.3-10 Male to 4.3-10 Female (4M4F), 7/16-DIN Male to 7/16-DIN Female (DMDF) | -160 dBc |
| A-100xxDHyyzz | DC-3 GHz | 03, 06, 10, 15, 20, 30 dB | 100 W | N Male to N Female (NMNF), 4.3-10 Male to 4.3-10 Female (4M4F), 7/16-DIN Male to 7/16-DIN Female (DMDF) | -110 dBc |
| A-200xxDHyyzz | DC-3 GHz | 03, 06, 10, 15, 20, 30 dB | 200 W | N Male to N Female (NMNF), 4.3-10 Male to 4.3-10 Female (4M4F), 7/16-DIN Male to 7/16-DIN Female (DMDF) | -110 dBc |

Nomenclature Guide for Termination Loads

AL - 050 - DH - 43F

1 2 3 4 5



| 1 Product Type | 2 Power Handling | 3 Frequency | 4 PIM Level | 5 Connector Type |
|----------------------|--|--|--|--|
| L = Termination Load | 001= 1W 002= 2 W 005= 5 W 010= 10 W 020= 20 W 025= 25 W 030= 30 W 050= 50 W 100= 100 W 200= 200 W 250= 250 W | D = DC-3 GHz M = 555-2700 or 698-2700 MHz U = DC-5 GHz | H = High PIM [≥ -149 dBc] N = Normal PIM [≤ -150 dBc] L = Low PIM [≤ -153 dBc] G = Great PIM [≤ -155 dBc] X = Excellent PIM [≤ -160 dBc] | 43F = 4.3-10 Female 43M = 4.3-10 Male DF = 7/16-DIN Female DM = 7/16-DIN Male NF = N Female NM = N Male |

Termination Load Product Reference

| Model | Frequency Range | Average Input Power | PIM (2x43 dBm) |
|--------------|-----------------|---------------------|----------------|
| L-001DHxx | DC-3 GHz | 1 W | --- |
| L-002MXxx | 698-2700 MHz | 2 W | -160 dBc |
| L-005DHxx | DC-3 GHz | 5 W | --- |
| L-005MXxx | 650-2700 MHz | 5 W | -160 dBc |
| L-010MXxx | 698-2700 MHz | 10 W | -160 dBc |
| L-020MXxx | 650-3000 MHz | 20 W | -160 dBc |
| L-025DHxx | DC-3000 MHz | 25 W | --- |
| L-025MXxx | 698-2700 MHz | 25 W | -160 dBc |
| L-025UHxx | DC-5 GHz | 25 W | --- |
| L-030MXxx | 650-3000 MHz | 30 W | -160 dBc |
| L-050DHxx | DC-3 GHz | 50 W | --- |
| L-050DXxx | 30-3000 MHz | 50 W | -160 dBc |
| L-050MXxx-JJ | 555-2700 MHz | 50 W | -160 dBc |
| L-050MXxx-CC | 698-2700 MHz | 50 W | -160 dBc |
| L-100DHxx | DC-3 GHz | 100 W | --- |
| L-100DXxx | 30-3000 MHz | 100 W | -160 dBc |
| L-100MXxx-JJ | 555-2700 MHz | 100 W | -160 dBc |
| L-100MXxx-CC | 698-2700 MHz | 100 W | -160 dBc |
| L-100UHxx | DC-5 GHz | 100 W | -- |
| L-200DHxx | DC-3 GHz | 200 W | -110 dBc |
| L-200DXxx | DC-3 GHz | 200 W | -160 dBc |
| L-300UHxx | DC-5 GHz | 300 W | --- |



Nomenclature Guide for DC Blocks

ADS - ML - 43F 43M

1 2 3 4 5

| | | | | |
|--|--|--|---|---|
| 1 Product Type ADS = DC Block (DCStop) | 2 Frequency H = 698-4000 MHz L = 350-2700 MHz M = 698-2700 MHz | 3 PIM Level H = High PIM [≥ -149dBc] N = Normal PIM [≤ -150dBc] L = Low PIM [≤ -153 dBc] G = Great PIM [≤ -155 dBc] X = Excellent PIM [≤ -160 dBc] | 4 Connector Type A 43F = 4.3-10 Female 43M = 4.3-10 Male DF = 7/16-DIN Female DM = 7/16-DIN Male NF = N Female NM = N Male | 5 Connector Type B 43F = 4.3-10 Female 43M = 4.3-10 Male DF = 7/16-DIN Female DM = 7/16-DIN Male NF = N Female NM = N Male |
|--|--|--|---|---|

DC Block Product Reference

| Family Model Name | Frequency | Connector A Type | Connector B Type | PIM (2*43 dBm) | Design |
|-------------------|--------------|------------------|------------------|----------------|---|
| ADS-MX-DMDF-M | 698-2690 MHz | 7/16-DIN Female | 7/16-DIN Female | -160 | Inner Conductor Block Only [SlimDesign] |
| ADS-MX-43F43M-F | 690-2700 MHz | 4.3-10 Female | 4.3-10 Male | -160 | Inner Conductor Block Only |
| ADS-ML-DMDF-F | 700-2500 MHz | 7/16-DIN Female | 7/16-DIN Male | -153 | Inner Conductor Block Only |

Additional DC Block products available. Please contact your sales representative or visit www.amphenol-antennas.com for complete product line information.

Nomenclature Guide for POI Systems

P - 20 - 04 - 43F xx

1 2 3 4 5

| | | | | |
|---|---|--|---|---|
| 1 Product Type P = POI System | 2 Input Ports 06 = 6 Ports 07 = 7 Ports 20 = 20 Ports | 3 Output Ports 01 = 1 Port 02 = 2 Ports 04 = 4 Ports | 4 Connector Type 43F = 4.3-10 Female 43M = 4.3-10 Male DF = 7/16-DIN Female DM = 7/16-DIN Male NF = N Female NM = N Male | 5 Series Number Series code number has no direct correlation to individual specifications |
|---|---|--|---|---|

POI Product Reference

| Model | Frequency Range | Ports | | Average Input Power | Connectors | | PIM (2x43 dBm) |
|-----------------|---|-------|--------|---------------------|-----------------|-----------------|----------------|
| | | Input | Output | | Input | Output | |
| P-20-02-DF01-MM | 1710-1880/1920-2170/2300-2690 MHz | 20 | 2 | 200 W | 7/16-DIN Female | 7/16-DIN Female | -150dBc |
| P-20-04-DF01-CC | 832-915/1710-1880/1920-2170/2300-2390/2500-2690 MHz | 20 | 4 | 150 W | 7/16-DIN Female | 7/16-DIN Female | -155 dBc |
| P-07-01-DF01-CC | 890-960/1710-1880/1920-2170 MHz | 7 | 1 | 200 W | 7/16-DIN Female | 7/16-DIN Female | -143 dBc |
| P-07-01-DF02-CC | 890-960/897-950/1732-1875/1725-1845/1760-1880/1945-2145/1920-2135 MHz | 7 | 1 | 200 W | 7/16-DIN Female | 7/16-DIN Female | -153 dBc |
| P-06-02-NF01-KK | 1710-1880/1920-2170 MHz | 6 | 2 | 100 W | N-Female | N-Female | -143 dBc |
| P-07-02-NF01-KK | 1710-1880/1920-2170 MHz | 7 | 2 | 100 W | N-Female | N-Female | -143 dBc |

Amphenol

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