CORNING

Corning DoubleClick 50 Ohm Connectors

5G Ready

With ease, speed, and performance built in, **DoubleClick** 50 ohm connectors are designed to make your network even more reliable. They ensure efficient, high-quality data transfer for today's 4G and LTE technologies, and as you evolve your wireless network for the high-speed demands of 5G.

Quality and Durability That Installs in Just 90 Seconds

Available for use with a variety of standard cables using standard interfaces, DoubleClick Connectors install in just 90 seconds versus over five minutes for traditional connectors.

Easier and Faster Installation

- Two-piece design eliminates loose parts that can be dropped or lost during field installation
- Tooling dramatically cuts the time required to prepare cable
- POM ferrule design eliminates the need to hammer a backnut onto the cable
- Significantly lower tightening torque than other industry offerings
- Fewer turns required to fully tighten

Intelligent Design

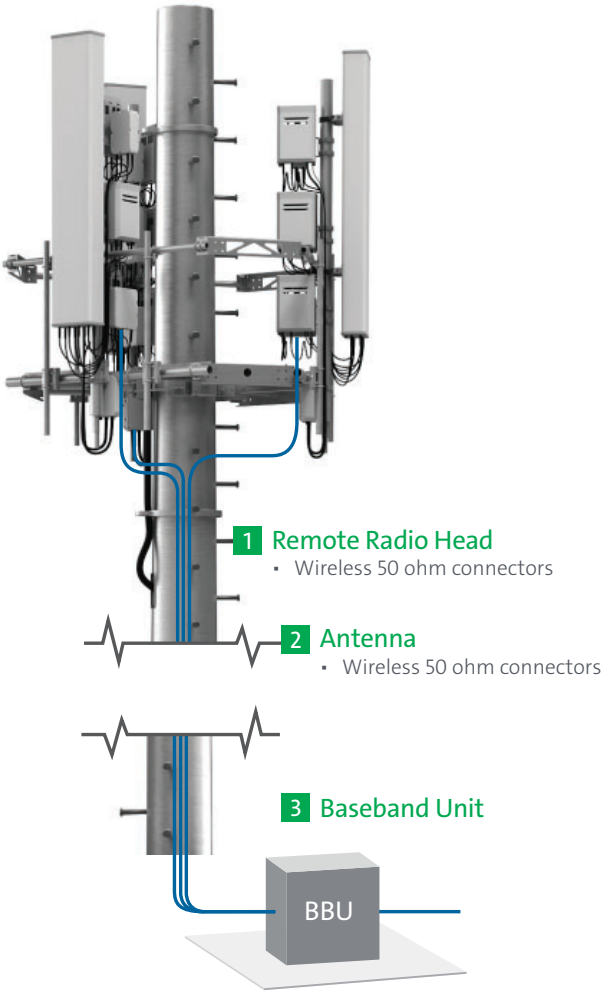
- High-tech polymer ferrule: 360-degree seal at the cable jacket
- DoubleClick technology: Dual grip on outer conductor allows a more stable connection for the best PIM performance
- "Super-sealing" interface: Creates a watertight interface with special polymer eliminating O-rings
- Best-in-class EPDM O-ring: O-ring provides sealing in case of cable jacket damage

Superior Electrical Performance

- Return loss (VSWR): 5-8 dB improvement vs. available solutions
- Intermodulation (PIM): 18 dB improvement vs. available solutions

Full NiTin-6™ Plated Brass Body and White Bronze Inner Conductor

- Nitin-6™ plating adds excellent corrosion resistance and long-term conductivity and reliability to the nut, brass gripper, and body of the connector
- In-house nonmagnetic plating enables:
  - Excellent protection in all environments against corrosion
  - Low-friction surface retains lubricant but resists finger markings
  - No toxicity and no allergic reactions for individuals allergic to nickel
  - White bronze secures best-in-class performance (non allergenic, leveling, brightness, corrosion protection and diffusion barrier) vs. price



Connectors are Available for the Following Cable Sizes:			
½ in	⅞ in	1¼ in	1⅝ in
Interfaces Available			
7/16 (DIN)	4.1/9.5 (mini DIN)	4.3/10 (mini DIN)	N

Parameter	Measurement Conditions	Typical Measurement 1⅝ in	Typical Measurement 1⅝ in New Design (DoubleClick)	Difference
Voltage Standing Wave Radio (VSWR) Return Loss	50-1000 Mhz	38 dB	46 dB	+8 dB
	1000-2000 Mhz	35 dB	41 dB	+6 dB
	2000-3000 Mhz	34 dB	39 dB	+5 dB
Intermodulation	2 x 20 W	150 dBc	168 dBc	+18 dB

Wireless Portfolio

78095850

52095850

76051250

DoubleClick Wireless Connectors

Cable Type / Interface	7/16 DIN Male	90-Degree Right-Angle 7/16 DIN Male	7/16 DIN Female	4.3/10 DIN Male	90-Degree Right-Angle 4.3/10 DIN Male	4.3/10 DIN Female	N Male	90-Degree Right-Angle N Male	N Female	Stripping Tool
½-in Super Flex	50041250-01	50041251-01	52041250-01	58041250-01	58041251	60041250	76041250-01			28041250
½-in Corrugated	50051250-01	50051251-01	52051250-01	58051250-01		60051250-01	76051250-01	76051251-01	78051250-01	28051251
⅞-in Corrugated	50087850-01		52087850-01	58087850-01		60087850-01				28087851
1 ¼-in Corrugated	50091450		52091450							28091451
1 ⅝-in Corrugated	50095850		52095850							28095851

DualStrip™ tools, manufactured in-house with best-in-class performance, are available for each mentioned cable type. Consult our customer care centre to identify the appropriate connector and tool for your cable.

Cable Type	Item no.	Name	Description
½-in Super Flex	28041250	DualStrip Tool Type 412/50	DualStrip Tool for ½-in super flex cable
	50041250-01	7/16M-412/50	7/16 DIN Male connector for ½-in super flex cable
	50041251-01	90-7/16M-412/50	90-degree Right angle 7/16 DIN Male for ½-in super flex cable
	52041250-01	7/16F-412/50	7/16 DIN Female for ½-in super flex cable
	58041250-01	4.3/10M-412/50	4.3/10 DIN Male for ½-in super flex cable
	58041251	90-4.3/10M-412/50	90-degree Right angle 4.3/12 Male for ½-in super flex cable
	60041250	4.3/10F-412/50	4.3/10 DIN Female for ½-in super flex cable
	76041250-01	NM/50-412/50	N Male for ½-in super flex cable
½-in Corrugated	28051251	DualStrip Tool Type 512/50	DualStrip Tool for ½-in corrugated
	50051250-01	7/16M-512/50	7/16 DIN Male for ½-in corrugated cable
	50051251-01	90-7/16M-512/50	90-degree Right angle 7/16 DIN Male for ½-in corrugated cable
	52051250-01	7/16F-512/50	7/16 DIN Female for ½-in corrugated cable
	58051250-01	4.3/10M-512/50	4.3/10 DIN Male for ½-in corrugated cable
	60051250-01	4.3/10F-512/50	4.3/10 DIN Female for ½-in corrugated cable
	76051250-01	NM/50-512/50	N Male for ½-in corrugated cable
	76051251-01	90-NM/50-512/50	90-degree Right angle N Male for ½-in corrugated cable
	78051250-01	NF/50-512/50	N Female for ½-in corrugated cable
⅞-in Corrugated	28087851	DualStrip Tool Type 878/50	DualStrip tool for ⅞-in corrugated
	50087850-01	7/16M-878/50	7/16 DIN Male for ⅞-in corrugated cable
	52087850-01	7/16F-878/50	7/16 DIN Female for ⅞-in corrugated cable
	58087850-01	4.3/10M-878/50	4.3/10 DIN Male for ⅞-in corrugated cable
	60087850-01	4.3/10F-878/50	4.3/10 DIN Female for ⅞-in corrugated cable
1 ¼-in Corrugated	28091451	DualStrip Tool Type 914/50	DualStrip Tool for 1 ¼-in corrugated
	52091450	7/16M-914/50	7/16 DIN Male for 1 ¼-in corrugated cable
	52091450	7/16F-914/50	7/16 DIN Female for 1 ¼-in corrugated cable
	28095851	DualStrip Tool Type 958/50	DualStrip Tool for 1 ⅝-in corrugated
	50095850	7/16M-958/50	7/16 DIN Male for 1 ⅝-in corrugated cable
	52095850	7/16F-958/50	7/16 DIN Female for 1 ⅝-in corrugated cable

FAQ

What is an RF connector?

A coaxial radio frequency (RF) connector is an electrical connector designed to work at radio frequencies in the multi-megahertz range. RF connectors are typically used with coaxial cables and are designed to maintain the shielding that the coaxial design offers.

What is the most common type of connector used in wireless/cellular networks?

The most common connector used in wireless/cellular networks is an RF connector with 50 ohm impedance. A 50 ohm connector fitted to a coaxial cable is part of a coaxial connection between a remote radio head and an antenna.

What kinds of 50 ohm connectors does Corning offer?

Corning offers a family of DoubleClick 50 ohm connectors for antenna installation coverings:

- Coaxial cable range ½, ⅞, 1 ¼, and 1 ⅝ in
- Coaxial cable standard and super-flex range
- Interfaces 7/16, 4.1-9.5 (mini DIN), 4.3-10, N, and more

What is the main value proposition of Corning connectors?

The two-piece design of the DoubleClick connector is simple and reliable.

- 90-second installation time
- Easy cable prep and connector installation reduces time to connect
- Best-in-class static and dynamic PIM performance
- New, patented sealing systems: IP68/five-point sealing system eliminates need for additional sealing (tape or heat shrink)
- Outstanding mechanical performance
- A wide variety of adapters and tools available

Is Corning planning to introduce additional products for wireless/cellular networks?

Yes. New 50 ohm jumpers and size-optimized connectors will be released during the first half of 2020.

Where are Corning 50 ohm connectors made?

Corning 50 ohm connectors are produced and assembled in Vordingborg, Denmark.

Learn more about DoubleClick connectors:

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