CORNING

Corning® RF Trunk Connector with True Split Technology

Space Savings – up to 1.8 GHz – Fast and Easy Installation – DOCSIS 3.1+ Ready

Installation and Space Savings

To keep up with ever-increasing bandwidth demand and price competition, MSOs are having to upgrade their networks. These upgrades often require adding new hardware to already crowded spaces. The Corning® RF trunk connector with true split technology can drastically reduce the amount of space and components used in cabinets to make room for new hardware. This makes, for example, exchanging cabinets unnecessary.

Exceptional Electrical Performance

The integrated design of our new Corning RF trunk connector with true split technology with fewer parts and a brass, Nitin-plated body makes it easier and faster to install, is more electrically resilient, and reduces the number of network maintenance calls.

Future-Ready Design

With stable return loss across the whole frequency range from 5-1800 MHz, Corning RF trunk connector with true split technology ensures an excellent network performance migrating to DOCSIS 3.1+ and beyond.

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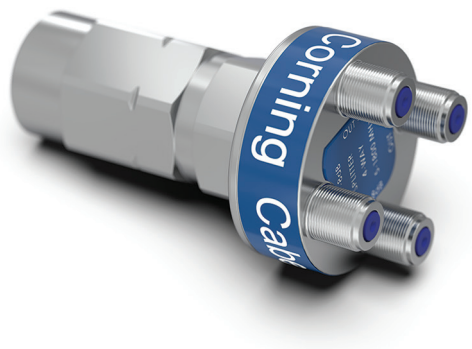

- DOCSIS 3.1+ ready (min. 1,8 GHz ready)
- Less time and parts to install (various inputs e.g. cable or F-port)
- Minimum cross-talk and maximum shielding (> A++ shielding and transfer impedance)
- Space savings (trunk connector includes splitter/tap)

Electrical Features

Data	Performance	Standard	Comments
Frequency range	5-1.800 MHz	IEC 61169-1	DOCSIS 3.1+ ready
Transfer impedance	A++	EN 50117-2-1/EN 50289-1-6	
Shielding effectiveness	A++	EN 50117-2-1/EN 50289-1-6	
Impedance	75 Ohm		
Harmonic distortion	▪ Before surge < 0 dBuV ▪ 25 V surge 10 times < 15 dBuV ▪ 1 kV surge < 15 dBuV		
High-voltage blocking (AC)	2 kV		2 kV capacitor is on all subscriber ports
Passive intermodulation	3rd Order (@ 2x + 20 dBm); < -115 dBc		
Dynamic intermodulation	3rd Order (@ 2x + 20 dBm); < -115 dBc		
Surge withstand	1 kV min. 1.2/50us		
All tap versions with power through IN-OUT			
Two-way splitter available with power-through			

Mechanical Features

Data	Performance	Standard	Comments
Operation temperature	-25°C - +85°C		
Installation temperature	-5°C - +50°C		
Base material	Brass		
Plating	▪ Body Nitin-6™ ▪ HQ F female inner conductor ▪ White bronze		
Salt fog	1.000 hours	EN 60068-2-11	
Vibration	▪ 1 octave p/m ▪ 10 ▪ 3 ▪ 10~55 Hz	▪ Sweep rate ▪ Sweep cycles ▪ Axis ▪ Frequency range	

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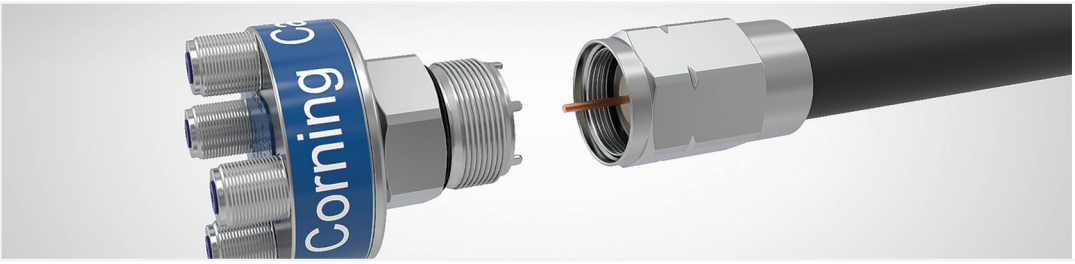
Two-Way Splitter | One Tap*		
Name	60 V 2A Power-Through	Name
Splitters		
Two-way	Yes	Two-Way Splitter without power
Two-way	No	Two-Way Splitter 2A power
One-Tap + Out (Two-Way)		
1-6 dB	Yes	One-Tap 1-6 dB 2A power
1-8 dB	Yes	One-Tap 1-8 dB 2A power
1-10 dB	Yes	One-Tap 1-10 dB 2A power
1-12 dB	Yes	One-Tap 1-12 dB 2A power
1-16 dB	Yes	One-Tap 1-16 dB 2A power
1-20 dB	Yes	One-Tap 1-20 dB 2A power
1-24 dB	Yes	One-Tap 1-24 dB 2A power
1-30 dB	Yes	One-Tap 1-30 dB 2A power

Three-Way Splitter | Two Tap*		
Name	60 V 2A Power-Through	Name
Splitters		
Three-way	No	Three-Way Splitter without power
Two-Tap + Out (Three-Way)		
2-8 dB	Yes	Two-Tap 2-8 dB 2A power
2-10 dB	Yes	Two-Tap 2-10 dB 2A power
2-12 dB	Yes	Two-Tap 2-12 dB 2A power
2-16 dB	Yes	Two-Tap 2-16 dB 2A power
2-20 dB	Yes	Two-Tap 2-20 dB 2A power
2-24 dB	Yes	Two-Tap 2-24 dB 2A power
2-28 dB	Yes	Two-Tap 2-28 dB 2A power

Four-Way Splitter | Three Tap*		
Name	60 V 2A Power-Through	Name
Splitters		
Four-way	No	Four-Way Splitter without power
Four-Tap + Out/Through (Four-Way)		
4-10 dB	No	Four-Tap 4-10 dB without power
4-12 dB	No	Four-Tap 4-12 dB without power



***Can be ordered with any Corning® Cabelcon® backnut type:**

- TL 101
- TL 212
- TL 313
- TL 404
- TL 525
- TL 616
- TL 717
- TL 828
- Etc.

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Frequently Asked Questions

1. Why should I use the RF trunk connector with true split technology in my network?

Technical benefits:

- DOCSIS 3.1+ ready min. 1,8 GHz ready – future upgrades covered already (no need to touch again)
- Insulation between output ports = reduced "cross talk"
- Shielding >A++ (best in the world)
- Full brass Nitin-plated housing
- Least possible connections negatively impacting the signal
- Splitter/tap directly connected to incoming cable (drop/trunk)
- Water-sealed ports
- Cabelcon true lock technology used (locked ferrule eliminating cable twist and maximum signal protection)

Installation benefits:

- Faster and easier installation
- Less components = less stock
- Less space needed (more space for other equipments)
- Eliminating need for bigger cabinets while upgrading
- Indoor, outdoor, and underground applicable
- Round design enable easy port access/installation
- No new installation tools or training needed

2. How do I install this connector?

- On trunk cable – the same as an existing true lock connector
- On drop cable – the same as an existing drop cable connection (but more quickly and easily)

3. Where can I install/use it?

- You can use it wherever you install splitters and taps today (burial, cabinets, aerial...)

4. Can it be used for DOCSIS full duplex?

- Yes – it works with the same upstream and downstream frequency (from 5 MHz to at least 1800 MHz)

5. Do I need additional tools?

- No – no additional tools or special training is required

6. Can it be used for DOCSIS 3.1.?

- Yes – it works for DOCSIS 3.1 and beyond

7. What is the frequency range?

- It ranges from 5 to at least 1800 MHz

8. Which types of cables can I use it for?

- It can be used for every coax cable for which true lock is available (see web catalogue or paper catalogue, page 13 for cable manufacturers)

9. How many cables/households will I be able to connect?

- You can connect as many as you want or are able to connect with your current solution

10. What attenuation/version/type/portfolio is available?

- Two-, three-, and four-way splitters and taps (including various attenuations)
- E.g. Two-way splitter with 2 amp and 60 V pass-through
- All taps: 2 amp and 60 V from input to output (no current on tap)

11. Can I use it indoor and outdoor?

- Indoor and outdoor usage is possible, as well as usage underground

12. What power can it handle?

- 2 amp and 60 V (tap from input to output, splitter as pass-through)

13. Can I buy it as an adapter solution (e.g. "F" female input)?

- Yes – per request, any combination is possible

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