

High Performance G.fast Connectivity



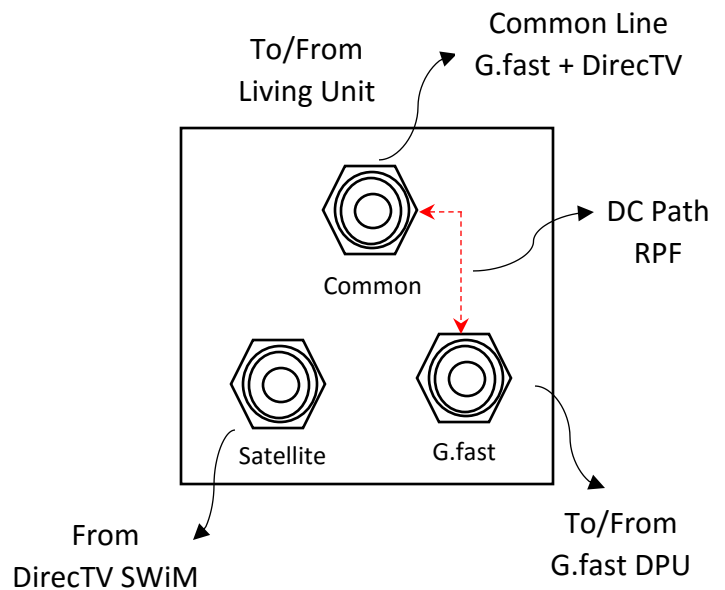
G.fast over Coax

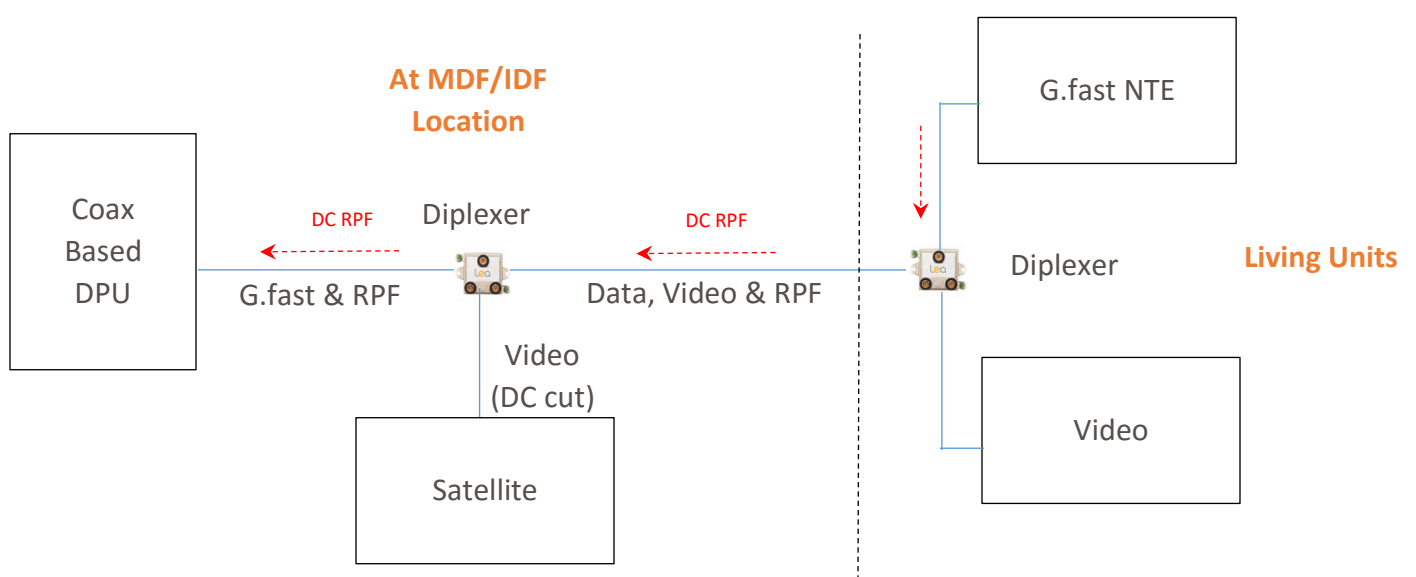
Diplexer unit G.fast & DBS with MoCA

- ✓ Combines G.fast over coax and DBS services to each living unit.
- ✓ Complies and exceeds specs for ETSI TS 101 548 v2.1.1 for RPF scenarios.
- ✓ High isolation In/Out preventing midband MoCA coming out of living units.
- ✓ Supports G.fast handshake carrier set tones.
- ✓ Designed to provide the lowest insertion loss while maintaining the highest isolation between ports to keep at minimum the disturbance of the transported signals.

Applications and Key Features

- High performance diplexer used in MDU hybrid deployment of G.fast over coaxial.
- Designed to combine G.fast 212 MHz and Satellite DBS services.
- Blocks midband MoCA at Satellite port.
- DC pass through to support future RPF services.
- One diplexer per G.fast DPU port to combine G.fast and Satellite signals.
- One diplexer per living unit to separate G.fast and Satellite signals.





Pictures and Use Cases

Frequency range

Input

- From satellite service:
 - 2.1 – 2.5 MHz
 - 950 – 2150 MHz
- From G.fast service:
 - Handshake support (ITU-T G994.1)
 - DC – 430 KHz
 - 5 – 212 MHz

Output (common line)

- DC – 430 KHz
- 2.1 – 2.5 MHz
- 5 – 806 MHz
- 950 – 2150 MHz

Port to port isolation

- TV to G.fast isolation > 45dB

Return loss

- > 10 dB

Physical Interface

- Outdoor compliant SCTE Female F ports.
- F Port coloring non-DC power pass ports
- Red colored DC power pass ports
- Two grounding lugs.

Casing

- Metal, outdoor rated.

DC path

- Up to 60Vdc
- Up to 600 mA

Port protection

- Case isolation 50-60Hz, Min 500Vrms
- Lightning to case 10/700 μ s, Max 1.5kV
- Transverse power 50-60Hz, Max 250Vrms

Certification

- UL 467
- EN60950
- RoHS

Environment

- Temperature as per MILSTD-883, JESD22-A104
- Humidity as per MIL-STD-810F

Physical

- Dimensions: 2 x 2 x 1.5"
- Weight: 4.2oz. (120g)