

Please find below the General Technical Specifications for Corning True Split connectors for 75-Ohm CATV network.

Please be aware, that the precise specifications for a connector will depend on the used cable. Detailed datasheet for specific connector and cable combination can be supplied from Corning on request.

Electrical features

| Data | Performance | Standard | Comments |
|---|--|-----------------------------|---|
| Frequency range | 5-1.800 MHz | IEC 61169-1 | DOCSIS 3.x 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 25V surge 10 times < 15 dBuV 1KV surge < 15 dBuV | | |
| High voltage blocking (AC): | 2KV | | 2 KV capacitor is on all subscriber ports |
| Passive Intermodulation (Static) | >115 dBc | | |
| Passive Intermodulation (Dynamic) | >115 dBc | | |
| Surge withstand | 1 KV min. 1.2/50uS | | |
| All tap versions with power through IN – OUT | | | |
| 2-Way Splitter available with power through | | | |
| Return loss | See page 2 | | |
| Insertion Loss | See page 2 | | |
| Isolation | See page 2 | | |

Mechanical features

| Data | Performance | Standard | Comments |
|--------------------------|---|---|----------|
| Operation temperature | -25°C - +85°C | | |
| Installation temperature | -5°C - +50°C | | |
| Base material | Brass | | |
| Plating | Body NiTin6 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 | |

| Typical spec | CTSX-02 | CTSX-02-P | CTSX-04 | CTSX-1-6 | CTSX-2-12 | CTSX-4-10 | CTSX-4-12 |
|------------------------------|---------|-----------|---------|----------|-----------|-----------|-----------|
| Return Loss (dB) (IN/OUT) | | | | | | | |
| 5-12 Mhz | 22.5 | 20.4 | 25,3 | 17.4 | 22.5 | 25.8 | 25.6 |
| 12-40 Mhz | 25.7 | 24.3 | 26,9 | 18.6 | 20.8 | 29.1 | 29.6 |
| 40-320 Mhz | 26.2 | 36.5 | 25,6 | 21.1 | 26.8 | 33.0 | 36.5 |
| 320-400 Mhz | 29.3 | 31.5 | 25,6 | 20.7 | 34.1 | 29.8 | 38.4 |
| 400-800 Mhz | 19.5 | 23.7 | 23,0 | 19.5 | 30.0 | 23.9 | 28.4 |
| 800-1000 Mhz | 18.4 | 18.5 | 25,0 | 23.2 | 22.5 | 20.1 | 22.5 |
| 1000-1200 Mhz | 17.9 | 15.2 | 28,1 | 27.4 | 20.2 | 18.8 | 20.8 |
| 1200-1800 Mhz | 13.6 | 21.7 | 19,3 | 23.1 | 23.7 | 19.4 | 22.5 |

| Insertion Loss (dB) Output | | | | | | | |
|-------------------------------|-----|-----|-----|-----|-----|---|---|
| 5-12 Mhz | 3.6 | 4.2 | 7.0 | 3.1 | 1.9 | - | - |
| 12-40 Mhz | 3.5 | 3.7 | 6.8 | 2.7 | 1.6 | - | - |
| 40-320 Mhz | 3.5 | 3.6 | 6.8 | 2.5 | 1.4 | - | - |
| 320-400 Mhz | 3.6 | 3.7 | 7.0 | 2.6 | 1.5 | - | - |
| 400-800 Mhz | 3.9 | 4.0 | 7.2 | 2.7 | 1.7 | - | - |
| 800-1000 Mhz | 4.0 | 4.4 | 7.5 | 2.8 | 2.0 | - | - |
| 1000-1200 Mhz | 4.2 | 4.5 | 7.9 | 2.9 | 2.2 | - | - |
| 1200-1800 Mhz | 5.3 | 4.9 | 8.9 | 3.6 | 3.1 | - | - |

| Insertion Loss (dB) Tap | | | | | | | |
|----------------------------|---|---|---|-----|------|------|------|
| 5-12 Mhz | - | - | - | 7.1 | 13.1 | 9.4 | 11.2 |
| 12-40 Mhz | - | - | - | 6.9 | 13.0 | 9.2 | 11.0 |
| 40-320 Mhz | - | - | - | 6.9 | 12.9 | 9.2 | 11.0 |
| 320-400 Mhz | - | - | - | 7.0 | 13.0 | 9.4 | 11.2 |
| 400-800 Mhz | - | - | - | 6.9 | 13.0 | 9.6 | 11.3 |
| 800-1000 Mhz | - | - | - | 6.8 | 13.0 | 10.1 | 11.6 |
| 1000-1200 Mhz | - | - | - | 6.7 | 12.9 | 10.4 | 11.8 |
| 1200-1800 Mhz | - | - | - | 7.1 | 13.2 | 11.2 | 12.4 |

| Isolation (dB) | | | | | | | |
|----------------|------|------|------|--|------|------|------|
| 5-12 Mhz | 24.1 | 24.8 | 27.0 | | 37.5 | 32.0 | 35.4 |
| 12-40 Mhz | 30.1 | 34.8 | 31.2 | | 42.4 | 36.1 | 39.9 |
| 40-320 Mhz | 30.6 | 32.7 | 30.0 | | 42.9 | 34.1 | 38.3 |
| 320-400 Mhz | 29.8 | 28.6 | 28.6 | | 42.7 | 32.2 | 36.4 |
| 400-800 Mhz | 28.1 | 25.6 | 29.0 | | 42.0 | 32.7 | 36.2 |
| 800-1000 Mhz | 27.3 | 24.6 | 29.1 | | 41.4 | 33.1 | 35.8 |
| 1000-1200 Mhz | 26.4 | 23.9 | 27.6 | | 39.2 | 32.1 | 35.2 |
| 1200-1800 Mhz | 20.8 | 25.4 | 26.3 | | 32.3 | 32.7 | 37.1 |

| Isolation (dB) Tap to out | | | | | | | |
|------------------------------|--|--|--|------|------|--|--|
| 5-12 Mhz | | | | 34.8 | 26.5 | | |
| 12-40 Mhz | | | | 27.5 | 30.9 | | |
| 40-320 Mhz | | | | 28.1 | 31.7 | | |
| 320-400 Mhz | | | | 25.4 | 32.1 | | |
| 400-800 Mhz | | | | 26.1 | 32.0 | | |
| 800-1000 Mhz | | | | 26.5 | 29.4 | | |
| 1000-1200 Mhz | | | | 25.6 | 27.9 | | |
| 1200-1800 Mhz | | | | 22.2 | 22.8 | | |