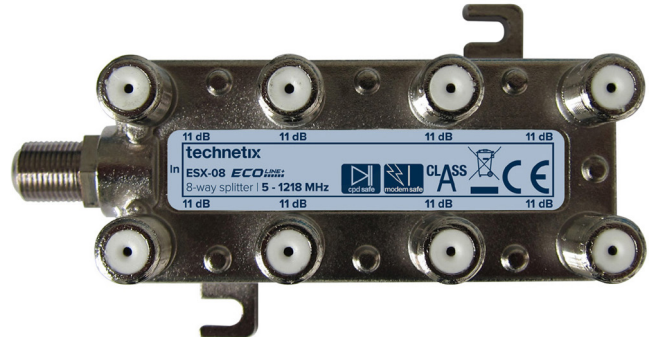


## ESX-08



- › High quality 8-way installation splitter
- › Modem Safe™
- › CPD Safe™
- › Easy to install
- › Grounding block included
- › Exceeds EN Class A screening requirements



### Overview

Products within the Ecoline range excel both in electrical and mechanical performance. Though designed for use within indoor environments, they are also specified for use within street-side plant. The products are easy to install with a compact housing and some models are stackable. All F-connector contacts meet the SCTE standards (ANSI SCTE 02 2006). The material of the inner spring has been designed for connecting coax cables with an inner core of 0.64 to 1.07 mm. It retains this elasticity and provides effective clamping force even when varying thicknesses of inner conductor are connected in succession.

The intermodulation performance, which is an important factor in high level return path signals, has been greatly improved through a newly developed ferrite and specially designed circuits. The high frequency shielding exceeds Class A requirements (EN-50083-2:2006) over the whole frequency range from 5 MHz to 1218 MHz.

### Modem Safe™

Modem Safe is a highly effective surge protection solution for sensitive network and in-home CPE. Based on passive circuits, the technology does not rely on discharge tubes, extending the lifespan of the solution.

- › Blocks high and low voltage pulses and unwanted DC voltages
- › Prevents internal ferrites within the product from becoming magnetized (avoiding deterioration in the performance of CPE)
- › Drives fewer reported faults
- › Improves customer service
- › Reduces truck rolls

### CPD Safe™

CPD (Common Path Distortion) is well known for producing signal interference on networks. It is caused by electrolytic corrosion or the oxidization of dissimilar metals when in close contact. CPD Safe technology protects against CPD.

- › Removes a primary cause of CPD
- › Reduces signal interference on the network
- › Drives fewer reported faults
- › Reduces truck rolls
- › Improves customer service

## ESX-08

### Specifications

|   |                     | MHz  | 8-way splitter |     |      |
|---|---------------------|--|----------------|-----|------|
|   |                     |  | Min            | Typ | Max  |
| Frequency range (MHz)                   |                     | 5-1218   |                |     |      |
| Insertion loss (dB)                     | In to Out           | 5-65   |                |     | 10.5 |
|   |                     | 65-300   |                |     | 10.8 |
|   |                     | 300-550  |                |     | 11.4 |
|   |                     | 550-750  |                |     | 11.8 |
|   |                     | 750-862  |                |     | 12   |
|   |                     | 862-1218   |                |     | 12.8 |
| Isolation (dB) <sup>1</sup>             | Out to Out          | 5-15   | 26             |     |      |
|   |                     | 15-65  | 30             |     |      |
|   |                     | 65-862   | 30             |     |      |
|   |                     | 862-1218   | 20             |     |      |
| Return loss (dB) <sup>1</sup>           | All ports           | 5-15   | 18             |     |      |
|   |                     | 15-1006  | 22             |     |      |
|   |                     | 1006-1218  | 18             |     |      |
| Group delay <sup>4</sup>                | (nS)                | 5-15   |                |     | 140  |
|   |                     | 15-65  |                |     | 10   |
|   |                     | 85-1218  |                |     | 2    |
| Intermodulation (dBC, min) <sup>3</sup> |                     | 5-1218   | 105            |     |      |
| Screening efficiency (dB) <sup>2</sup>  | In and Out          | 5-30   |                | 95  | 85   |
|   |                     | 30-300   |                | 90  | 85   |
|   |                     | 300-470  |                | 85  | 80   |
|   |                     | 470-950  |                | 85  | 75   |
|   |                     | 950-1218   |                | 85  | 55   |
| Surge withstand (V)                     | Input               |  | 1 kV           |     |      |
| Temperature range (°C)                  | Operating           |  | -40 to +60     |     |      |
|   | Storage             |  | -40 to +65     |     |      |
| Impedance (Ohm, typ)                    |                     |  | 75             |     |      |
| Connectors                              | Input               |  | F-female       |     |      |
|   | Output              |  | F-female       |     |      |
|   |                     | Compliant with EN 61169-24 2009 Internal F connector specification |                |     |      |
| Material                                | Housing<br>F-spring | NiSn plated zinc diecast<br>Silver plated beryllium copper         |                |     |      |
| Dimensions (mm)                         | L x H x D           | 55 x 30 x 92   |                |     |      |
| Equipment approval                      |                     | CE/FCC   |                |     |      |

### Remarks

|   |  |
|---|--|
| 1 | F >40 MHz - 1.5 dB/oct, Min 18 dB, IEC 60728-4 §4.6  |
| 2 | Measured in accordance to EN 50083-2   |
| 3 | Out to Out two carries 60 and 65 MHz @ 120 dBμV, after 10 pulses (25V/1.2μS rise time / 500μS duration) at Output ports. |
| 4 | dF=4.433MHz  |
| 5 | All specifications measured at room temperature.   |