Protection for TV, satellite and radio systems
OVR TV Series protectors provide combined Category D, C, B tested protection (to BS EN/IEC 61643-21), suitable for use on analogue and digital Cable, Terrestrial and Satellite TV systems, including 4K high definition TV

Protectors include as standard:

- Very low let-through voltage (voltage protection level $U_p$) between all lines
- Full Mode protection, permitting continuous operation of equipment, even during surge activity
- Low attenuation and high return loss over a wide range of frequencies, to ensure system performance is not impaired
- Substantial earth termination
- Robust die cast metal housing with holes for flat mounting

**Installation**

Install on lines running within buildings at boundaries up to LPZ 0 through to LPZ 3 to protect sensitive electronic equipment from transient damage.

Connect in series with the coaxial cable either near where it enters or leaves each building or close to the equipment being protected.

The line end must be connected to the coaxial cable entering or exiting, with the clean end connected to the equipment (see installation diagram below).

Cables connected to the protector’s clean end should never be routed next to the dirty line end or the earth bond, to avoid transients being re-introduced after the protector.
Terrestrial Analogue/Digital (Freeview™) TV and FM/DAB radio protection

The OVR TV/EURO and the OVR TV/F are suitable for protecting standard un-amplified TV aerial feeds, whether the feed is for analogue or digital reception.

The only technical differences between the two units are the connectors.

- For standard Euro TV push-fit connectors, use the OVR TV/Euro
- For F-type screw-fit connectors, use the OVR TV/F

Install in-line (in series) following guidelines in ‘Installation’ opposite.

Cable (CATV) TV and cable broadband internet protection

The OVR CATV/F is suitable for protecting both Cable TV and Broadband Internet cable feeds.

Install in-line (in series) following guidelines in ‘Installation’ opposite.

Master Antenna TV protection

The OVR MATV/F is suitable for protecting Master Antenna TV and Integrated Reception System (IRS) feeds.

The OVR MATV/F is a wideband surge protector as it covers the combined signals from radio, terrestrial, cable and satellite TV feeds for distribution systems.

These are typically used in hotels and for public entertainment purposes. Ideally an aerial feed and/or satellite feed should be protected at the entry point to the building before it is connected to an MATV system.

The internal MATV lines should then be inherently protected. However if that setup is not possible or the MATV cabling runs outside of the building then the OVR MATV/F should be installed in-line with the MATV feed as close as possible to where the cabling enters and/or leaves the building.

Satellite TV protection

The OVR SMATV/F is suitable for protecting satellite TV feeds.

The surge protector should be installed in-line with the satellite feed as close as possible to where the cabling enters the building.

Fitting an additional OVR SMATV/F as close as possible to the satellite dish can provide protection for the satellite dish circuitry.

Attention should also be paid to protecting the power feeding the receivers for each system.

Protect the receiver equipment locally with a low-current in-line solution, or all equipment within the building by using a parallel-connected solution at the main distribution board.

Contact ABB for more details.

<table>
<thead>
<tr>
<th>TV System</th>
<th>Part Code</th>
<th>Connection Type</th>
<th>Bandwidth</th>
<th>Max Working Voltage</th>
</tr>
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<tbody>
<tr>
<td>Terrestrial TV/Radio</td>
<td>OVR TV/EURO</td>
<td>Euro TV female</td>
<td>5 – 860 MHz</td>
<td>6.4 V</td>
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<tr>
<td>Terrestrial TV/Radio</td>
<td>OVR TV/F</td>
<td>F-type female</td>
<td>5 – 860 MHz</td>
<td>6.4 V</td>
</tr>
<tr>
<td>Cable TV</td>
<td>OVR CATV/F</td>
<td>F-type female</td>
<td>5 – 860 MHz</td>
<td>140 V</td>
</tr>
<tr>
<td>MATV TV</td>
<td>OVR MATV/F</td>
<td>F-type female</td>
<td>5 – 3224 MHz</td>
<td>18 V</td>
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<tr>
<td>Satellite TV</td>
<td>OVR SMATV/F</td>
<td>F-type female</td>
<td>860 – 3224 MHz</td>
<td>18 V</td>
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</table>

<table>
<thead>
<tr>
<th>Part No.</th>
<th>ABB order code</th>
</tr>
</thead>
<tbody>
<tr>
<td>OVR TV/EURO</td>
<td>7TC085400R0334</td>
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<tr>
<td>OVR TV/F</td>
<td>7TC085400R0335</td>
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<tr>
<td>OVR CATV/F</td>
<td>7TC085400R0293</td>
</tr>
<tr>
<td>OVR MATV/F</td>
<td>7TC085400R0308</td>
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<tr>
<td>OVR SMATV/F</td>
<td>7TC085400R0336</td>
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</table>
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