

- Compatible with OTTZ multitap range
- Frequency range 5 – 1800 MHz
- Full range of cable simulators available
- Full range of cable equalizers available



## Overview

Signal conditioning is used in some networks to give a specific amount of tilt to the tap ports, enabling them to reach homes with a flat signal. In the OTTZ platform, the signal conditioning plug-ins can be installed in the faceplate, which are all delivered with a 0 dB jumper. When installing a cable equalizer or cable simulator, the 0 dB jumper in the faceplate will be replaced by the signal conditioning plug-in.

### Specifications - 1.8 GHz cable equalizers

Parameter	MHz	2 dB	3 dB	4 dB	6 dB	8 dB	9 dB	10 dB	12 dB	14 dB	16 dB	18 dB	20 dB	22 dB
Insertion loss (dB) <sup>1</sup>	5	2.9	3.9	4.9	7.0	9.0	10.1	11.2	13.2	15.2	17.3	19.3	21.4	23.5
	12	2.9	3.8	4.8	6.9	8.8	9.9	10.9	12.9	14.9	16.9	18.9	21	22.9
	65	2.7	3.5	4.5	6.3	8.0	9.1	10	11.8	13.6	15.5	17.2	19.1	20.9
	85	2.6	3.4	4.4	6.2	7.8	8.9	9.8	11.5	13.2	15.1	16.8	18.6	20.4
	105	2.6	3.4	4.3	6.1	7.7	8.7	9.6	11.2	12.9	14.7	16.4	18.2	19.9
	120	2.6	3.3	4.2	6.0	7.5	8.5	9.4	11.1	12.7	14.5	16.2	17.9	19.6
	204	2.4	3.1	3.9	5.6	7.0	7.9	8.7	10.2	11.7	13.4	14.9	16.5	18
	256	2.3	3.0	3.8	5.3	6.7	7.5	8.3	9.8	11.2	12.7	14.2	15.7	17.2
	470	2.1	2.6	3.7	4.5	5.6	6.4	7.0	8.2	9.4	10.7	11.9	13.1	14.3
	862	1.7	2.1	2.5	3.4	4.1	4.7	5.1	6.0	6.8	7.7	8.5	9.4	10.2
	1006	1.6	1.9	2.3	3.1	3.7	4.2	4.5	5.2	5.9	6.7	7.4	8.2	8.9
	1218	1.4	1.6	1.9	2.6	3.0	3.4	3.7	4.2	4.8	5.4	5.9	6.5	7.1
	1500	1.2	1.3	1.5	2	2.2	2.5	2.7	3.0	3.3	3.8	4.1	4.5	4.8
	1825	0.9	0.9	0.9	1.0	1.0	1.1	1.2	1.2	1.2	1.3	1.3	1.4	1.5
Tolerance (dB)	5-1825	±0.8	±0.8	±0.8	±0.8	±0.8	±0.8	±0.8	±0.8	±0.8	±0.8	±1.0	±1.0	±1.0
RL min (In/Out) (-dB)	5-1825	16	16	16	16	16	16	16	16	16	16	16	16	16

### Specifications - 1.8 GHz cable simulators

Parameter	MHz	2 dB	3 dB	4 dB	6 dB	8 dB	9 dB	10 dB	12 dB	15 dB	18 dB	21 dB
Insertion loss (dB) <sup>1</sup>	5	0.1	0.1	0.2	0.3	0.4	0.4	0.5	0.5	0.7	0.8	0.9
	12	0.1	0.2	0.3	0.4	0.6	0.6	0.7	0.8	1.0	1.3	1.5
	65	0.3	0.5	0.7	1.0	1.3	1.5	1.7	2.0	2.5	3.0	3.5
	85	0.4	0.6	0.8	1.2	1.5	1.7	1.9	2.3	2.8	3.4	4.0
	105	0.4	0.6	0.9	1.3	1.7	1.9	2.1	2.6	3.2	3.8	4.5
	120	0.5	0.7	0.9	1.4	1.8	2.1	2.3	2.7	3.4	4.1	4.8
	204	0.6	0.9	1.2	1.8	2.4	2.7	3.1	3.6	4.5	5.5	6.4
	256	0.7	1.0	1.4	2.1	2.8	3.1	3.5	4.1	5.1	6.2	7.2
	470	1.0	1.4	1.9	2.9	3.9	4.3	4.8	5.7	7.2	8.6	10.3
	862	1.4	2.0	2.7	4.1	5.4	6.1	6.8	8.1	10.1	12.1	14.1
	1006	1.5	2.2	3.0	4.4	5.9	6.6	7.4	8.8	11	13.3	15.4
	1218	1.7	2.4	3.3	5.0	6.6	7.4	8.3	9.8	12.3	14.8	17.2
	1500	1.9	2.8	3.7	5.6	7.5	8.4	9.3	11.1	13.9	16.7	19.5
	1825	2.1	3.1	4.2	6.3	8.4	9.4	10.5	12.5	15.7	18.8	21.9
Tolerance (dB)	5-1825	±0.8	±0.8	±0.8	±0.8	±0.8	±0.8	±0.8	±0.8	±0.8	±1.0	±1.0
RL min (In/Out) (-dB)	5-1825	16	16	16	16	16	16	16	16	16	16	16

#### Remarks:

1. Insertion loss is a point-to-point window at specified frequency

## Ordering information

Item number	Item code	Description
19014812	TXPI-EQZ-02	TECHNETIX PLUG-IN EQ 2 dB 1.8 GHz FOR OTTZ
19014813	TXPI-EQZ-03	TECHNETIX PLUG-IN EQ 3 dB 1.8 GHz FOR OTTZ
19014814	TXPI-EQZ-04	TECHNETIX PLUG-IN EQ 4 dB 1.8 GHz FOR OTTZ
19014815	TXPI-EQZ-06	TECHNETIX PLUG-IN EQ 6 dB 1.8 GHz FOR OTTZ
19014816	TXPI-EQZ-08	TECHNETIX PLUG-IN EQ 8 dB 1.8 GHz FOR OTTZ
19014817	TXPI-EQZ-09	TECHNETIX PLUG-IN EQ 9 dB 1.8 GHz FOR OTTZ
19014818	TXPI-EQZ-10	TECHNETIX PLUG-IN EQ 10 dB 1.8 GHz FOR OTTZ
19014819	TXPI-EQZ-12	TECHNETIX PLUG-IN EQ 12 dB 1.8 GHz FOR OTTZ
19014820	TXPI-EQZ-14	TECHNETIX PLUG-IN EQ 14 dB 1.8 GHz FOR OTTZ
19014821	TXPI-EQZ-16	TECHNETIX PLUG-IN EQ 16 dB 1.8 GHz FOR OTTZ
19014822	TXPI-EQZ-18	TECHNETIX PLUG-IN EQ 18 dB 1.8 GHz FOR OTTZ
19014823	TXPI-EQZ-20	TECHNETIX PLUG-IN EQ 20 dB 1.8 GHz FOR OTTZ
19014824	TXPI-EQZ-22	TECHNETIX PLUG-IN EQ 22 dB 1.8 GHz FOR OTTZ
19014825	TXPI-CSZ-02	TECHNETIX PLUG-IN CS 2 dB 1.8 GHz FOR OTTZ
19014826	TXPI-CSZ-03	TECHNETIX PLUG-IN CS 3 dB 1.8 GHz FOR OTTZ
19014827	TXPI-CSZ-04	TECHNETIX PLUG-IN CS 4 dB 1.8 GHz FOR OTTZ
19014828	TXPI-CSZ-06	TECHNETIX PLUG-IN CS 6 dB 1.8 GHz FOR OTTZ
19014829	TXPI-CSZ-08	TECHNETIX PLUG-IN CS 8 dB 1.8 GHz FOR OTTZ
19014830	TXPI-CSZ-09	TECHNETIX PLUG-IN CS 9 dB 1.8 GHz FOR OTTZ
19014831	TXPI-CSZ-10	TECHNETIX PLUG-IN CS 10 dB 1.8 GHz FOR OTTZ
19014832	TXPI-CSZ-12	TECHNETIX PLUG-IN CS 12 dB 1.8 GHz FOR OTTZ
19014833	TXPI-CSZ-15	TECHNETIX PLUG-IN CS 15 dB 1.8 GHz FOR OTTZ
19014834	TXPI-CSZ-18	TECHNETIX PLUG-IN CS 18 dB 1.8 GHz FOR OTTZ
19014835	TXPI-CSZ-21	TECHNETIX PLUG-IN CS 21 dB 1.8 GHz FOR OTTZ