

CURRENT PROBE CALIBRATION FIXTURE

Fischer Custom Communications, Inc. designs its calibration fixtures to match the physical and electrical characteristics of its current monitor probes to create a nominal 50 Ω transmission line through the fixture. This ensures each current monitor probe is calibrated into a 50 Ω system end to end, minimizing the Voltage Standing Wave Ratio (VSWR) at the input to the fixture. This maximizes the calibration accuracy and minimizes the calibration measurement uncertainty.

The usable frequency range for calibrating a current monitor probe with its prescribed calibration fixtures is the intersection of their usable frequency ranges: the usable start frequency is the higher of either the probe's or fixture's usable start frequency and the stop frequency is the lower of either the probe's or fixture's usable stop frequency.

The two tables below cross reference FCC Calibration Fixtures to FCC Current Monitor Probes and Current Monitor Probes to Calibration Fixtures. FCC does not recognize nor authorize the calibration of its own current monitor probes using calibration fixtures other than those listed below.

Current Monitor Probe Match to Calibration Fixture

Calibration Fixture	Current Monitor Probe
FCC-MPCF-1-32/94/64	F-10, F-10-1, F-14, F-14-1, F-16, F-16-1
FCC-MPCF-1-127/197/41	F-80, F-80-1, F-81
FCC-MPCF-2-67/142/53	F-10A, F-10A-1, F-10B, F-14A, F-14A-1, F-16A, F-16A-1, F-72, F-72-1, F-72-2, F-72-7, F-40-5, F-170329-1005-1
FCC-MPCF-2-32-40/98/38	F-14C, F-35, F-35A, F-35A-L, F-40, F-42, F-51, F-52
FCC-MPCF-2-70/125/38	F-70, F-71, F-75B
FCC-MPCF-2/19/58/26	F-33-1-18mm, F-33-2-18mm, F-61-18mm
FCC-MPCF-3-32/71/19	F-33-1, F-33-2, F-33-3, F-33-4, F-42A, F-50, F-51A, F-55, F-55A, F-60, F-62A, F-65, F-65A
FCC-MPCF-3-32-40/71/19	F-52B, F-17302-1005-1
FCC-MPCF-36 Rev B	F-36-1, F-36-2, F-36-4
FCC-MPCF-2k Rev B	F-2000-12mm
FCC-MPCF-F-37-2	F-37-2
FCC-MPCF-F-2000-40mm	F-2000-40mm-1
F-050315-1005-1	F-2000-32mm-1
F-050315-1005-2	F-2000-32mm-2
F-080902-1005-2	F-080902-1005-1, F-33-2-65mm



Calibration Fixture Match to Current Monitor Probe

Current Monitor Probe	Calibration Fixture
F-080902-1005-1, F-33-2-65mm	F-080902-1005-2
F-10	FCC-MPCF-1-32/94/64
F-10-1	FCC-MPCF-1-32/94/64
F-10A	FCC-MPCF-2-67/142/53
F-10A-1	FCC-MPCF-2-67/142/53
F-10B	FCC-MPCF-2-67/142/53
F-14	FCC-MPCF-1-32/94/64
F-14-1	FCC-MPCF-1-32/94/64
F-14A	FCC-MPCF-2-67/142/53
F-14A-1	FCC-MPCF-2-67/142/53
F-14C	FCC-MPCF-2-32-40/98/38
F-16	FCC-MPCF-1-32/94/64
F-16-1	FCC-MPCF-1-32/94/64
F-16A, F-16A-1	FCC-MPCF-2-67/142/53
F-2000-12mm	FCC-MPCF-2k Rev B
F-2000-32mm-1	F-050315-1005-1
F-2000-32mm-2	F-050315-1005-2
F-2000-40mm-1	FCC-MPCF-F-2000-40mm
F-33-1	FCC-MPCF-3-32/71/19
F-33-2	FCC-MPCF-3-32/71/19
F-33-3	FCC-MPCF-3-32/71/19
F-33-4	FCC-MPCF-3-32/71/19
F-33-1-18mm	FCC-MPCF-2/19/58/26
F-33-2-18mm	FCC-MPCF-2/19/58/26
F-61-18mm	FCC-MPCF-2/19/58/26
F-35	FCC-MPCF-2-32-40/98/38
F-35A, F-35A-L	FCC-MPCF-2-32-40/98/38
F-36 (Rev B)	FCC-MPCF-36 Rev B

Current Monitor Probe	Calibration Fixture
F-37-2	FCC-MPCF-F-37-2
F-40	FCC-MPCF-2-32-40/98/38
F-40-5	FCC-MPCF-1-67/153/102
F-42	FCC-MPCF-2-32-40/98/38
F-42A	FCC-MPCF-3-32/71/19
F-50	FCC-MPCF-3-32/71/19
F-51	FCC-MPCF-2-32-40/98/38
F-51A	FCC-MPCF-3-32/71/19
F-52	FCC-MPCF-3-32-40/98/38
F-52B	FCC-MPCF-2-32-40/98/38
F-55	FCC-MPCF-3-32/71/19
F-55A	FCC-MPCF-3-32/71/19
F-60	FCC-MPCF-3-32/71/19
F-62A	FCC-MPCF-3-32/71/19
F-65	FCC-MPCF-3-32/71/19
F-65A	FCC-MPCF-3-32/71/19
F-70	FCC-MPCF-2-32-40/98/38
F-71	FCC-MPCF-2-32-40/98/38
F-72	FCC-MPCF-2-67/142/53
F-72-1	FCC-MPCF-2-67/142/53
F-72-2	FCC-MPCF-2-67/142/53
F-72-7	FCC-MPCF-2-67/142/53
F-72-8	FCC-MPCF-2-67/142/53
F-75B	FCC-MPCF-2-70/125/38
F-80	FCC-MPCF-1-127/197/41
F-80-1	FCC-MPCF-1-127/197/41
F-81	FCC-MPCF-1-127/197/41
F-170302-1005-1	FCC-MPCF-3-32-40/98/38
F-170329-1005-1	FCC-MPCF-2/67/142/53

