

Customer use specifications for High Speed Interconnects Ultraflex Micro Coaxial Cable. The following specifications are for fluoropolymer coax constructions intended for use in micro coaxial cable assemblies. Other coax constructions are available including custom. For more information please contact High Speed Interconnects application engineering at 888-565-7878.

HSI UFX Coax	36awg	38awg	40awg	42awg	44awg
HSI Part Number	P010111-5X	P010111-0X	P010111-1X	P010111-2X	P010111-3X
<b>Material</b>					
Center Conductor	SPC 7/.05	SPC alloy 7/.04	SPC alloy 7/.03	SPC alloy 7/.025	SPC alloy 7/.02
Dielectric	Fluoropolymer	Fluoropolymer	Fluoropolymer	Fluoropolymer	Fluoropolymer
Shield <sup>1</sup>	SPC or TC .03mm	SPC or TC .04mm	SPC or TC .03mm	SPC or TC .03mm	SPC or TC .025mm
Jacket	PET	Fluoropolymer	Fluoropolymer	Fluoropolymer	Fluoropolymer
<b>Dimensional</b>					
Center Conductor Diameter	.15mm	.12mm	.09mm	.075mm	.06mm
Coax Diameter	.37mm	.44mm	.37mm	.33mm	.27mm
<b>Electrical</b>					
Impedance	30Ω Nom	50Ω Nom	50Ω Nom	50Ω Nom	50Ω Nom
Conductor Resistance	1.5Ω/m Max	2.5Ω/m Max	4.0Ω/m Max	6.0Ω/m Max	10.5Ω/m Max
Capacitance	NA	110 pf/m	110 pf/m	110 pf/m	110 pf/m
Attenuation	NA	5dB/m @ 1GHz	6 dB/m @ 1GHz	7 dB/m @ 1GHz	8 dB/m @ 1GHz
Voltage Rating <sup>2</sup>	30 V	30 V	30 V	30 V	30 V
Current Rating <sup>3</sup>	>0.55 A	0.55 A	0.4 A	0.3 A	0.25 A
<b>Mechanical</b>					
Operating Temperature Range <sup>4</sup>	-35°C to 85°C	-35°C to 85°C	-35°C to 85°C	-35°C to 85°C	-35°C to 85°C

- (1) TC is Tin plated copper wire, SPC is silver plated copper wire.
- (2) Voltage rating is limited by connector choice.
- (3) Insulated single power wire options are available for higher current applications.
- (4) Coax operating temperature range is limited by connector. Wider temperature range is possible for other termination applications.

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