CANFORD microMUSA 12G 4K UHD PATCHCORDS

Developed for use with Canford microMUSA video patch panels. Performance exceeds the requirements of SMPTE ST 2082-1 making them suitable for composite and component video, analogue video, 270 Mb/s SDI, uncompressed 1080i or 1080p HD-SDI video and 4K UHD (2160P60) video up to 12GHz.

The microMusa format offers the highest possible density in a single 1U panel with a maximum of 48 patches possible. A feature of Canford microMUSA video patch panels is a unique positive location feature ("detent") that indicates when the patchcord is fully mated into the panel whilst additionally providing resistance to disconnection through vibration as found in some environments such as OB vehicles. Designed and made to the same very high standards as our 3G MUSA connectors microMusa U links are not compatible with existing Canford 3G MUSA range due its much smaller form format.

Like the original 3G MUSA system, the microMUSA is a non-normalised system and therefore U-links or patchcords are required to make the circuit.

The microMUSA patchcords are manufactured using Canford branded 12G 4K UHD video coaxial cable which is designed to be both very flexible and withstand repeated flexing. The MicroMUSA connectors are nickel-plated with gold plated centre contacts providing a smooth mating action.

Patchcordcable is black with factory fitted coloured strain relief bushes. Ten different colours aids patchcord identification. Standard lengths 300mm, 450mm, 600mm, 600mm, 900mm, 1.2m. Other lengths may be available on request.

SPECIFICATIONS

Electrical

Impedance	75 Ohm	
Frequency Range	Up to 12GHz	
Dielectric Withstand Voltage	750 Veff	(Connector)
Insulation Resistance	10000 M-Ohm	(Connector)
Capacitance	53 pF/m	(Cable)

Cable Nom Attenuation

	Freq MHz	*dB/m*		*Freq GHz*	*dB/m*
	10	0.040		1.3	0.505
	30	0.065	SMPTE ST424 (3G)	1.5	0.547
SMPTE 259 (NTSC)	72	0.109		2.4	0.713
ITU-R BT.601 (PAL)	88	0.120		3.0	0.810
SMPTE 259M 4:2:2	135	0.151	SMPTE ST2082-1 (12G)	6.0	1.219
SMPTE 344M (SDI)	180	0.175			
	270	0.217			
	440	0.281			
SMPTE 292M (HD-SDI)	750	0.374			

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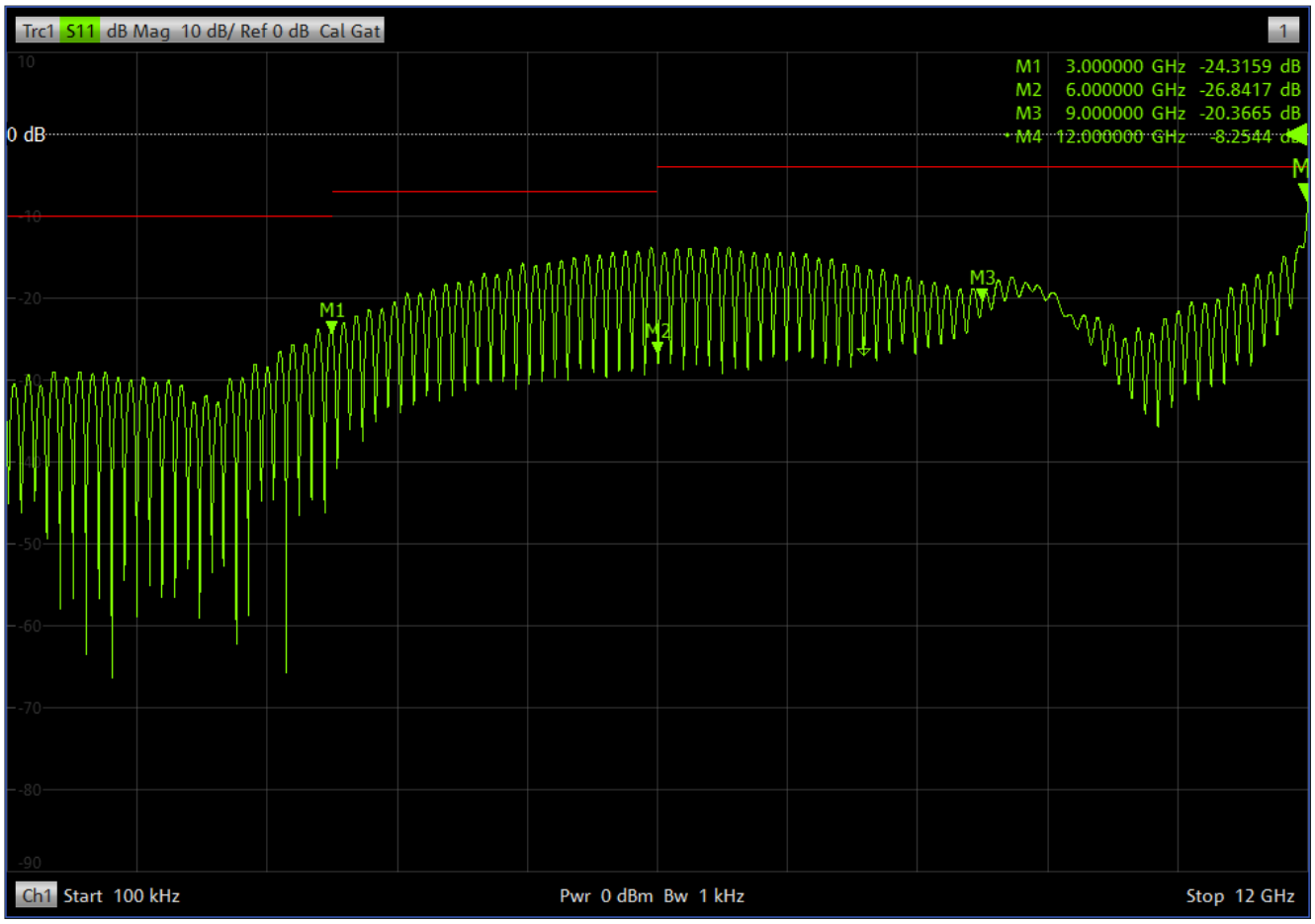
Mechanical		
RoHS3 Compliant	Yes	
Mating Cycles	5000	
Mating Force	10N max	
Un-Coupling Force	25N max	
Cable retention	150N	
Cable Diameter	4.2mm (nom)	
Weight	4.85g/connector	32g/m (Cable)

Environmental	
Operating Temperature	-30 to +70 Deg C
IP Rating (Mated)	IP30

Materials	*Connector*
Centre Contact	Beryllium Copper
Outer Contact	Phosphor Bronze
Insulator	PTFE
Centre Contact Plating	Gold
Outer Contact Plating	Nickel

Performance	*(1m Cable Assembly)*	
Return Loss	3Ghz	-24.31 dB
	6Ghz	-26.84 dB
	9Ghz	-20.36 dB
	12Ghz	- 8.25 dB



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Standard Product

45-5900 CANFORD microMUSA 12G UHD PATCHCORD 300mm Black
45-5901 CANFORD microMUSA 12G UHD PATCHCORD 300mm Brown
45-5902 CANFORD microMUSA 12G UHD PATCHCORD 300mm Red
45-5903 CANFORD microMUSA 12G UHD PATCHCORD 300mm Orange
45-5904 CANFORD microMUSA 12G UHD PATCHCORD 300mm Yellow
45-5905 CANFORD microMUSA 12G UHD PATCHCORD 300mm Green
45-5906 CANFORD microMUSA 12G UHD PATCHCORD 300mm Blue
45-5907 CANFORD microMUSA 12G UHD PATCHCORD 300mm Violet
45-5908 CANFORD microMUSA 12G UHD PATCHCORD 300mm Grey
45-5909 CANFORD microMUSA 12G UHD PATCHCORD 300mm White

45-5910 CANFORD microMUSA 12G UHD PATCHCORD 450mm Black
45-5911 CANFORD microMUSA 12G UHD PATCHCORD 450mm Brown
45-5912 CANFORD microMUSA 12G UHD PATCHCORD 450mm Red
45-5913 CANFORD microMUSA 12G UHD PATCHCORD 450mm Orange
45-5914 CANFORD microMUSA 12G UHD PATCHCORD 450mm Yellow
45-5915 CANFORD microMUSA 12G UHD PATCHCORD 450mm Green
45-5916 CANFORD microMUSA 12G UHD PATCHCORD 450mm Blue
45-5917 CANFORD microMUSA 12G UHD PATCHCORD 450mm Violet
45-5918 CANFORD microMUSA 12G UHD PATCHCORD 450mm Grey
45-5919 CANFORD microMUSA 12G UHD PATCHCORD 450mm White

45-5920 CANFORD microMUSA 12G UHD PATCHCORD 600mm Black
45-5921 CANFORD microMUSA 12G UHD PATCHCORD 600mm Brown
45-5922 CANFORD microMUSA 12G UHD PATCHCORD 600mm Red
45-5923 CANFORD microMUSA 12G UHD PATCHCORD 600mm Orange
45-5924 CANFORD microMUSA 12G UHD PATCHCORD 600mm Yellow
45-5925 CANFORD microMUSA 12G UHD PATCHCORD 600mm Green
45-5926 CANFORD microMUSA 12G UHD PATCHCORD 600mm Blue
45-5927 CANFORD microMUSA 12G UHD PATCHCORD 600mm Violet
45-5928 CANFORD microMUSA 12G UHD PATCHCORD 600mm Grey
45-5929 CANFORD microMUSA 12G UHD PATCHCORD 600mm White

45-5930 CANFORD microMUSA 12G UHD PATCHCORD 900mm Black
45-5931 CANFORD microMUSA 12G UHD PATCHCORD 900mm Brown
45-5932 CANFORD microMUSA 12G UHD PATCHCORD 900mm Red
45-5933 CANFORD microMUSA 12G UHD PATCHCORD 900mm Orange
45-5934 CANFORD microMUSA 12G UHD PATCHCORD 900mm Yellow
45-5935 CANFORD microMUSA 12G UHD PATCHCORD 900mm Green
45-5936 CANFORD microMUSA 12G UHD PATCHCORD 900mm Blue
45-5937 CANFORD microMUSA 12G UHD PATCHCORD 900mm Violet
45-5938 CANFORD microMUSA 12G UHD PATCHCORD 900mm Grey
45-5939 CANFORD microMUSA 12G UHD PATCHCORD 900mm White

45-5940 CANFORD microMUSA 12G UHD PATCHCORD 1200mm Black
45-5941 CANFORD microMUSA 12G UHD PATCHCORD 1200mm Brown
45-5942 CANFORD microMUSA 12G UHD PATCHCORD 1200mm Red
45-5943 CANFORD microMUSA 12G UHD PATCHCORD 1200mm Orange
45-5944 CANFORD microMUSA 12G UHD PATCHCORD 1200mm Yellow
45-5945 CANFORD microMUSA 12G UHD PATCHCORD 1200mm Green
45-5946 CANFORD microMUSA 12G UHD PATCHCORD 1200mm Blue
45-5947 CANFORD microMUSA 12G UHD PATCHCORD 1200mm Violet
45-5948 CANFORD microMUSA 12G UHD PATCHCORD 1200mm Grey
45-5949 CANFORD microMUSA 12G UHD PATCHCORD 1200mm White

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