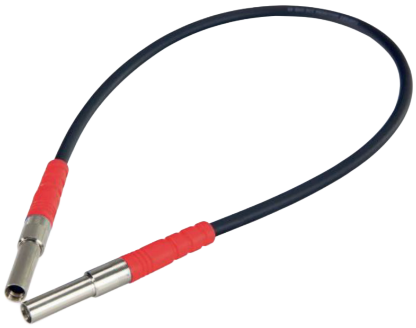
Technical Data Sheet

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.

TECHNICAL SPECIFICATION

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)

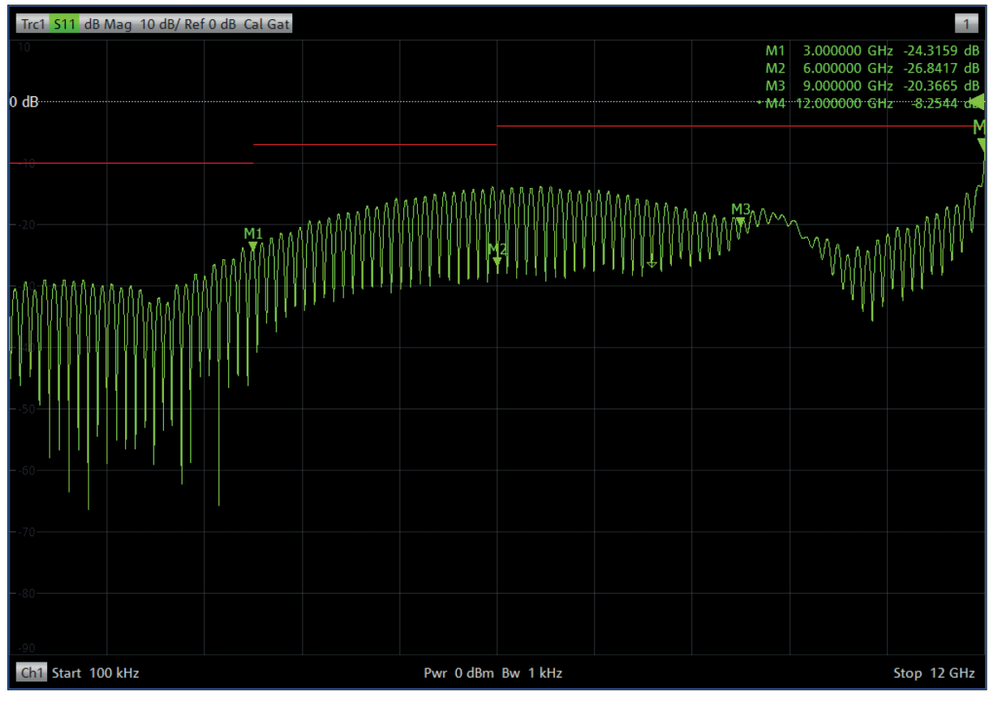
Cable Nom Attenuation

	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



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

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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

45-5950 CANFORD microMUSA 12G UHD PATCHCORD 1500mm Black

45-5960 CANFORD microMUSA 12G UHD PATCHCORD 1800mm Black

45-5970 CANFORD microMUSA 12G UHD PATCHCORD 2m Black

45-5980 CANFORD microMUSA 12G UHD PATCHCORD 5m Black

NOTES