

Partners in Broadcast, Telecom & Satellite Solutions

SMPTE 311M Fiber Camera Cable

This composite cable integrates power line for TV camera, control line and optical fiber for video and audio transmission. The cable is standardized by SMPTE as a cable for TV camera

Authorized OEM/Distributo

Quality Built

Insulated Bulkheads

Featuring LEMO Cable & LEMO Connectors

- Test results supplied with each cable
- Epoxy and Polish Lemo F2 fiber contacts
- Connectors include bend relief & blanking cap (where applicable)



Highest Performance with LEMO F2 Fiber Contact

The advantage of using epoxy and polish contacts is the reliability of the termination and longevity of the connector to assure a quality signal transmission. These contacts are very robust and can withstand wide outdoor temperature variations.

Model Number ASF -Cable Length Cable End A **xxxM** Length in Metres FUW.3K.93C.TLKC96 FUW Cable End B **xxxF** Length in Feet PUW PUW.3K.93C.TLKC96 FUW FUW.3K.93C.TLKC96 FMW.3K.93C.TLKC96Z FMW Cable Type PUW.3K.93C.TLKC96 PUW PBW.3K.93C.TLKC96Z PBW 1L LEMO CFN.3K.93C.092PNCS. PVC Jacket FMW FMW.3K.93C.TLKC96Z 2L LEMO CFN.3K.93C.092UNCS. Polyurethane Jacket PBW PBW.3K.93C.TLKC96Z **BP** Belden 7804P. *Flamarrest Jacket* FUW FMW Straight Cable Plug / Male Panel-mount Plug, round flange / Male PUW PBW Straight Cable Jack / Female Panel-mount Receptacle, square flange / Female *For requirements not shown, contact AVP

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Insulated Bulkheads

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Featuring LEMO Cable & LEMO Connectors

LEMO[™] Northwire[™] hybrid camera cable according to SMPTE 311 standards

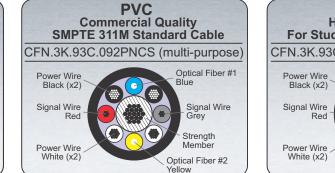
These composite cables combine power conductors for TV camera, control wires, and optical fibres for video and audio transmission in a single cable. Specially designed to cope with the heavy demands of outside broadcast. The cable fully meets the requirements of the SMPTE 311M standard for camera cables.

Primary features and benefits of this cable are:

- High durability construction
- Excellent flexing and twist capability coping with rough handling by rigging crews
- Superior load bearing capabilities – can be driven over by trucks whilst in operation



Cable Type: 1L



Cable Type: 2L PUR High Flex Quality For Studio or Low Temperature CFN.3K.93C.092UNCS (SMPTE 311M) Power Wire Black (x2) Signal Wire Red Power Wire White (x2) Power Wire White (x2)

Соге Туре	Power (Aux)	Control (Signal)	Optic Fibre	Strength Member	
Number of cores	4	2	2	1	
Conductor sizes - AWG	20	24	_	_	
Conductor construction - Number/mm	19/0.185	7/0.193	_	19/0.330	
Mode field diameter - µm	-	-	8.9 ± 0.8 at 1310	-	
Cladding diameter - µm	-	-	125 ± 1 µm	-	
Approx. diameter of conductor - mm	0.88	0.58	_	1.75	
Nominal insulation thickness - mm	0.41	0.30	_	0.38	
Approx. core diameter - mm	1.72	1.22	0.9	2.51	
Approx. thickness of tin-coated annealed copper braid - mm	0.127				
Nominal thickness of jacket - mm	1.14				
Approx. overall diameter - mm	9.2				
Approx. net weight - g/m7	137				
Max. conductor resistance - (20°C) Ω/km	43	184 (SMPTE)	-	-	
AC withstanding voltage - Vrms at 60 Hz, 1 min	1750	1750 (SMPTE)	-	-	
Min. insulation resistance - (20°) MΩkm	10'000	10'000	_	-	
UL Listing	AWM STYLE 21971				
Allowable tension	700N				
Temperature range (PUR version)	-40°C / +80°C				

Item	Wavelength	Characteristics	Conversion Condition (km)	Conversion Formula
Optical Fibre	λ = 1.31 μm	Less than .8 dB/km	up to ≥ 0.4	0.5xLdB≥
Transmission Loss	λ = 1.31 μm	Less than .8 dB/km	L < 0.4	0.5x0.4dB≥

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