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

LEMO® Authorized OEM/Distributor

Model Number

ASF - [ ] - [ ] - [ ] - [ ]

Cable End A

FUW	FUW.3K.93C.TLKC96
PUW	PUW.3K.93C.TLKC96
FMW	FMW.3K.93C.TLKC96Z
PBW	PBW.3K.93C.TLKC96Z

Cable End B

FUW	FUW.3K.93C.TLKC96
PUW	PUW.3K.93C.TLKC96
FMW	FMW.3K.93C.TLKC96Z
PBW	PBW.3K.93C.TLKC96Z

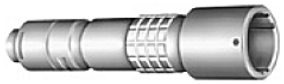
Cable Length

xxxM	Length in **M**etres
xxxF	Length in **F**eet

Cable Type

1L	LEMO CFN.3K.93C.092PNCS, *PVC Jacket*
2L	LEMO CFN.3K.93C.092UNCS, *Polyurethane Jacket*
BP	Belden 7804P, *Flamarrest Jacket*

FUW
Straight Cable Plug / Male



PUW
Straight Cable Jack / Female

FMW
Panel-mount Plug, round flange / Male

PBW
Panel-mount Receptacle, square flange / Female

*For requirements not shown, contact AVP

Quality Built

- 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.

Insulated Bulkheads

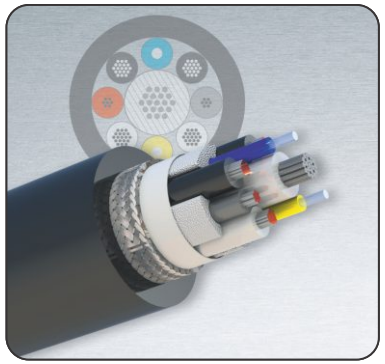
Featuring LEMO Cable & LEMO Connectors

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:

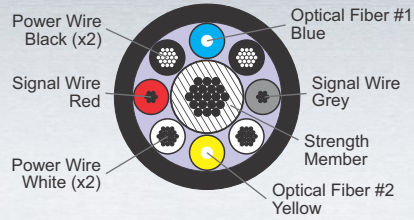
- High durability construction
- Excellent flexing and twist capability coping with rough handling by rigging crews
- Superior load bearing capabilities – can be driven over by trucks whilst in operation



Cable Type: 1L

PVC
Commercial Quality
SMPTE 311M Standard Cable

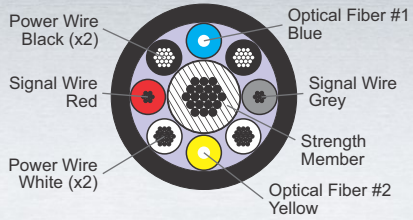
CFN.3K.93C.092PNCS (multi-purpose)



Cable Type: 2L

PUR
High Flex Quality
For Studio or Low Temperature

CFN.3K.93C.092UNCS (SMPTE 311M)



Core Type	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≥