

# Furukawa HDTV hybrid fibre camera cable TV-OM-FAMS lightweight cable



Photo courtesy of SIS Broadcast



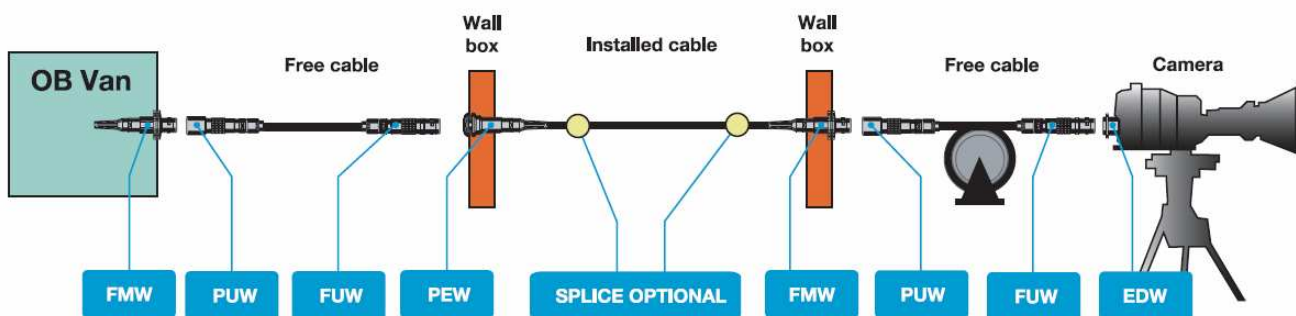
## TV-OM-FAMS lightweight hybrid cable for indoor & outdoor use up to 1000m

### Description

This composite cable combines power conductors for TV camera, control wires, and optical fibres for video and audio transmission in a single cable. Based on the popular and reliable Furukawa ARIB and SMPTE HD camera cables, this is a lightweight version for relatively short cable runs where portability in outside broadcasting is required.

Primary features and benefits of this cable are:

- Light weight – approximately 45% weight saving compared to standard SMPTE cables
- Medium operating distance up to 1km depending on camera system
- High durability Furukawa construction leading to reliability and long life.
- Excellent flexing and twist capability coping with rough handling by rigging crews.
- High tensile strength due to steel central strength member and high quality construction



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# TV-OM-FAMS Lightweight Hybrid Camera Cable

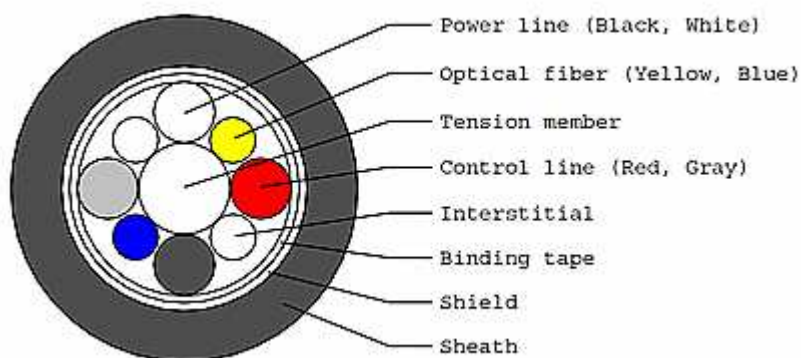
Lemo UK part number – UKT.0001358

## Cable specification

Marking	2SM-6.8-98.3			
Core type	Power	Control	Optic fibre	Strength member
No. of cores	2	2	2	1
Conductor sizes – mm <sup>2</sup>	0.2	0.2	-	-
Conductor construction - No/mm	18/0.12	18/0.12	-	12/0.3
Mode field diameter - µm	-	-	9.5±1	-
Cladding diameter - µm	-	-	125±3	-
Approx. conductor size - AWG	24	24	-	1.2mm
Nominal insulation thickness - mm	0.3	0.3	-	0.3
Approx. core diameter - mm	1.2	1.2	0.9	1.8
Approx. thickness of tin-coated annealed copper braid - mm	0.25			
Nominal thickness of jacket - mm	1.0			
Approx. overall diameter - mm	6.8±0.3			
Approx. net weight - kg/km	65			
Max. conductor resistance - (20°C) Ω/km	98.3	98.3	-	-
AC withstanding voltage - V/min	2000	2000	-	-
Min. insulation resistance - (20°C) MΩkm	10,000	10,000	-	-
Allowable tension	588N			

## Optical fibre

Item	Wavelength	Characteristics	Conversion	
			Length(km)	Formula
Transmission loss	$\lambda=1.31\mu\text{m}$	Less than 0.5dB/km	$L \geq 0.4$	$0.5 \times L \text{ dB} \geq$
			$L < 0.4$	$0.5 \times 0.4 \text{ dB} \geq$



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