

Furukawa HDTV hybrid fibre camera cable TV-OM-AMS SMPTE standard commercial grade



TV-OM-AMS SMPTE standard cable for outdoor use

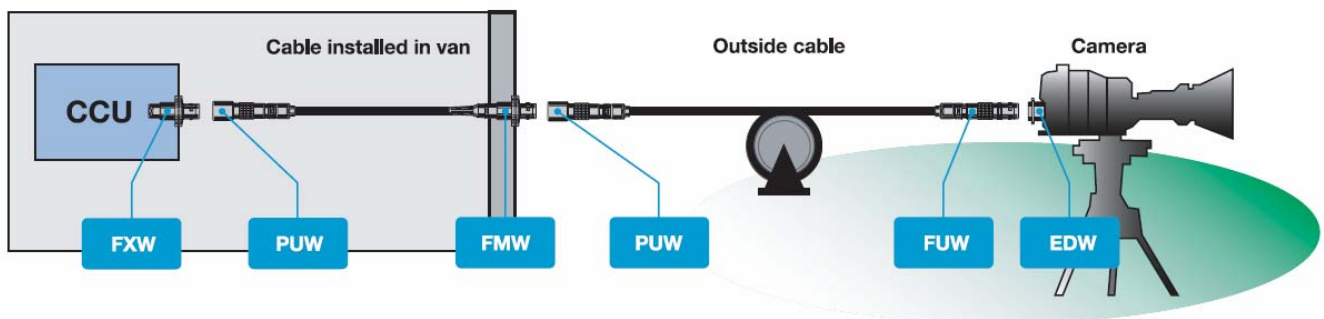
Description

This composite cable combines power conductors for TV camera, control wires, and optical fibres for video and audio transmission in a single cable. Specially designed to compete in the US market, this commercial grade cable fully meets the requirements of the SMPTE standard.

Primary features and benefits of this cable are:

- High durability construction, including higher braid coverage compared to the SMPTE standard requirements, leading to reliability and longer life than other competing grades.
- Excellent flexing and twist capability coping with rough handling by rigging crews.
- Superior load bearing capabilities.
- High tensile strength

OUTSIDE BROADCAST VAN



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TV-OM-AMS SMPTE standard cable

Lemo UK part number – UKT.0000790

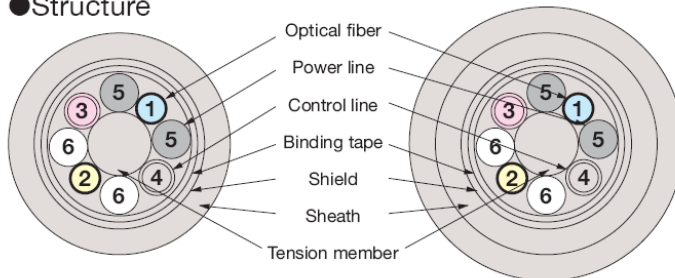
Cable specification

Marking	TV-OM-AMS-SMPTE			
	Power	Control	Optic fibre	Strength member
Core type	Power	Control	Optic fibre	Strength member
No. of cores	4	2	2	1
Conductor sizes - AWG	20	24	-	-
Conductor construction - No/mm	21/0.18	7/0.203	-	19/0.36
Mode field diameter - μm	-	-	9.5 \pm 1	-
Cladding diameter - μm	-	-	125 \pm 1	-
Approx. diameter of conductor - mm	0.9	0.61	-	1.8
Nominal insulation thickness - mm	0.4	0.33	-	0.35
Approx. core diameter - mm	1.7	1.27	0.9 \pm 0.05	2.5
Approx. thickness of tin-coated annealed copper braid - mm	0.3			
Nominal thickness of jacket - mm	1.2			
Approx. overall diameter - mm	9.2 \pm 0.3			
Approx. net weight - g/m	120			
Max. conductor resistance - (20 ^o C) Ω /km	37.5	113	-	-
AC withstanding voltage - V/1min	1,750	1,750	-	-
Min. insulation resistance - (20 ^o C) M Ω km	10,000	10,000	-	-
UL listing	CMR-OF			
Allowable tension	700N			

Optical fibre

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

● Structure



Core number	Core name	Core color
1	Optical fiber	Blue
2		Yellow
3	Control line	Red
4		Gray
5	Power line	Black
6		White

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