

Furukawa HDTV hybrid fibre camera cable 2SM-16-37.5 Studio Floor Cable



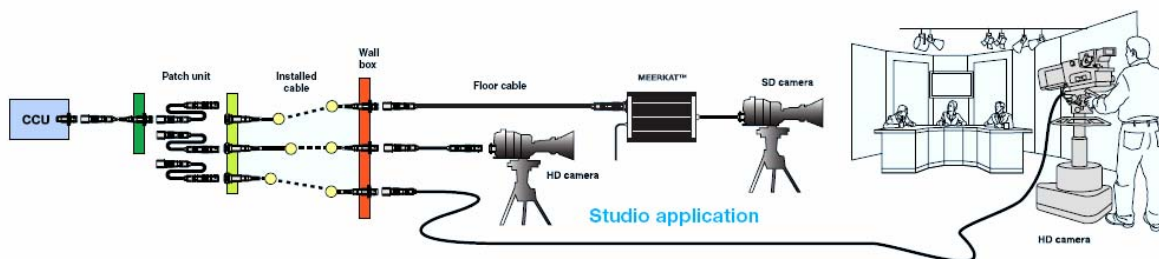
2SM-16-37.5 ARIB hybrid cable for studio use – 16mm diameter

Description

This composite cable combines camera power conductors, control wires, and optical fibres for video and audio transmission in a single cable, with additional outer jacket to 16mm diameter for studio use. Specially designed to cope with the heavy demands of the broadcast market, it has been successfully employed in Japan for over 10 years and as a result of its high quality construction and reliability is the clear market leader there. The cable fully meets the requirements of the Japanese ARIB standard for camera cables, the primary difference from the corresponding SMPTE standard being the colours of the two control wires.

Primary features and benefits of this cable are:

- High durability construction, including 99% braid coverage compared to the SMPTE standard 82%, leading to reliability and long life.
- Extra large diameter jacket to prevent getting caught under camera dollies
- 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.
- High tensile strength – central strength member is larger than SMPTE standard



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2SM-16-37.5 Standardised ARIB Cable

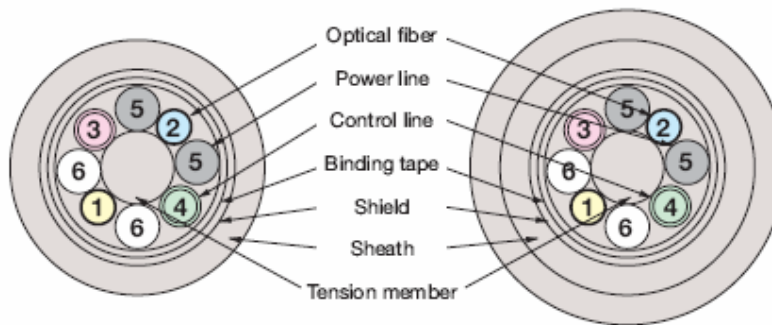
Lemo UK part number – UKT.0000762

Cable specification

Marking	2SM-16-37.5			
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	7/0.18	-	19/0.36
Mode field diameter - μm	-	-	9.5 \pm 1	-
Cladding diameter - μm	-	-	125 \pm 1	-
Approx. diameter of conductor - mm	0.9	0.55	-	1.8
Nominal insulation thickness - mm	0.4	0.3	-	0.35
Approx. core diameter - mm	1.7	1.2	0.9 \pm 0.05	2.5
Approx. thickness of tin-coated annealed copper braid - mm	0.3			
Nominal thickness of inner jacket - mm	1.2			
Approx. overall diameter - mm	16.0 \pm 0.5			
Approx. net weight - g/m	270			
Max. conductor resistance - (20 ^o C) Ω /km	37.5	113	-	-
AC withstanding voltage - V/1min	1,000	500	-	-
Min. insulation resistance - (20 ^o C) M Ω km	10,000	10,000	-	-
UL listing	CMR-OF			
Allowable tension	686N			

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	$0.5 \times L \text{ dB} \geq$
			$L < 0.4$	$0.5 \times 0.4 \text{ dB} \geq$



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