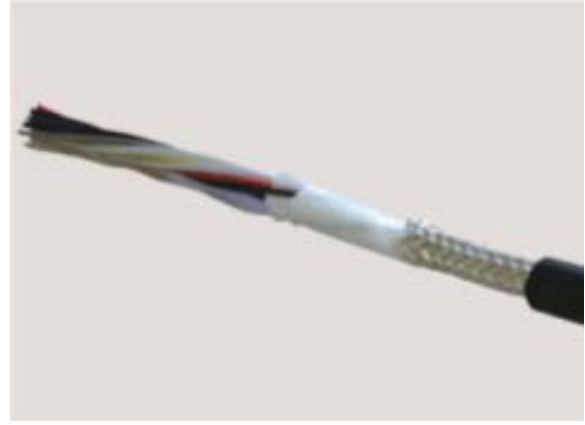


Multi-channel fire resistant (UL) riser & plenum grade HDTV hybrid fibre cable for installations



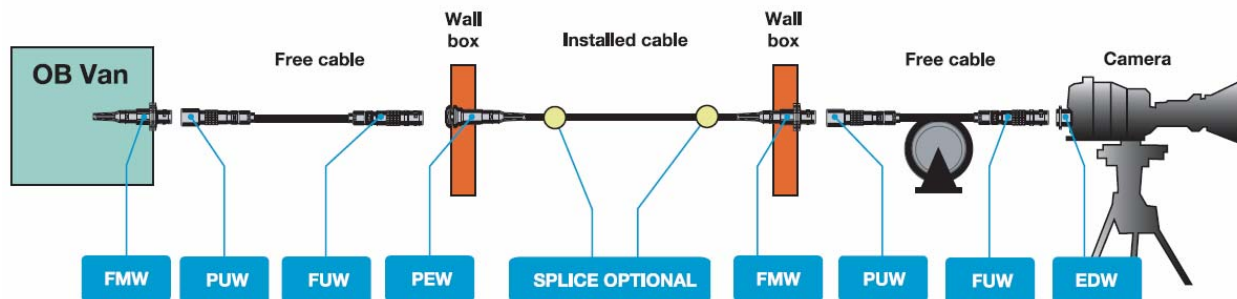
MULTI-CHANNEL RISER AND PLENUM GRADE HDTV CABLE

Description

This riser and plenum grade multi-channel hybrid fibre camera cable is designed for use in stadiums, studios and other installations, is constructed using specially selected materials to provide high fire resistance and is UL approved in accordance with UL444. Combining power conductors, control wires and optical fibres for video and audio it is an ideal and safe choice for fixed wiring applications. Based on the standard TV-OM-CMR grade it combines three camera system cables into one.

The high tensile strength steel central member protects the cable when being installed and provides the support needed for riser applications.

Completion of installation can be made easy using fibre splicing, or in-connector splicing, and a series of installation components - splice trays, junction boxes, patchcords, etc. – are available from LEMO



LEMO (UK) Ltd
Units 15 & 16 Hazelwood Trading Estate
Worthing, West Sussex, BN14 8NP

Tel: 01903 234543
Fax: 01903 206231
Email: uksales@lemo.com



www.lemo.co.uk

FIRE RESISTANT (UL APPROVED) HDTV FIBRE HYBRID CABLE

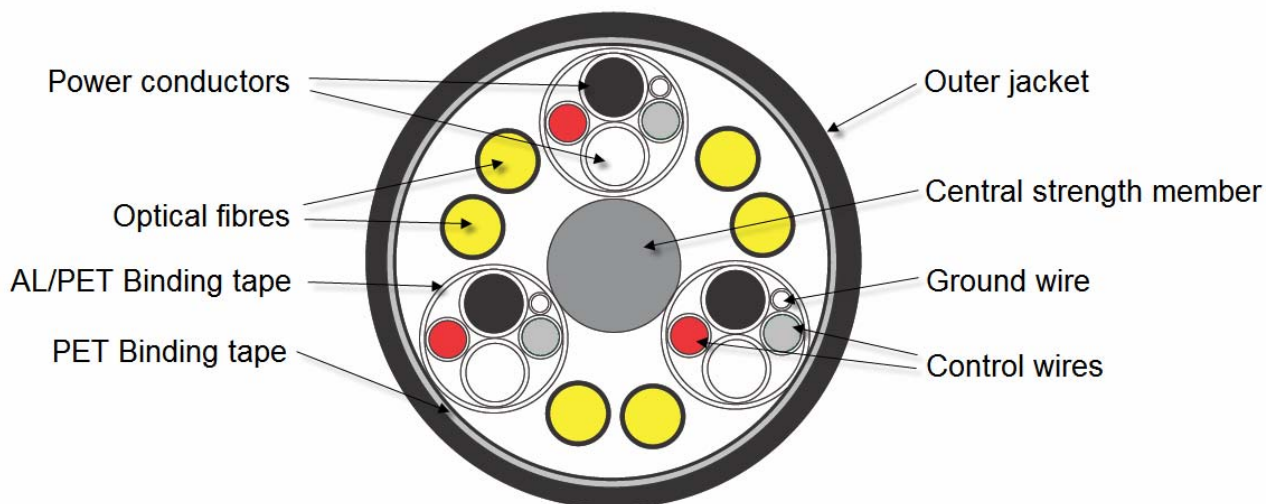
Cable specification

Marking	3TV-OM-CMR
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Core type	Power	Control	Ground wire	Strength member	Optic fibre
No. of cores	6	6	3	1	6
Conductor sizes – AWG	18	24	22	-	-
Conductor construction – No/mm	34/0.18	7/0.203	7.0/0.254	1/1.60	-
Mode field diameter – μm	-	-	-	-	9.5 \pm 1
Cladding diameter – μm	-	-	-	-	125 \pm 1
Approx. diameter of conductor – mm	1.21	0.61	0.762	1.6	0.9 \pm 0.05
Nominal insulation thickness – mm	0.33	0.33	-	0.55	-
Approx. core diameter - mm	1.87	1.27	-	2.7	2.0
Approx. thickness of AL/PET tape - mm	0.05				
Nominal thickness of jacket - mm	1.3				
Approx. overall diameter - mm	14.3 \pm 0.5				
Approx. net weight - g/m	245				
Max. conductor resistance – (20 ^o C) Ω /km	37.5	113	60	-	-
AC withstanding voltage – V/1min	2,000	2,000	-	-	-
Min. insulation resistance – (20 ^o C) M Ω km	10,000	10,000	-	-	-
UL listing	CMR-OF to UL 444				
Allowable tension	700N				

Optical fibre

Item	Condition	Characteristics	Conversion	
			Condition(km)	Formula
Transmission loss	$\lambda=1.31\mu\text{m}$	Maximum 0.5dB/km	Up to 0.4	0.2dB
			0.4 <	0.5 x length(km)



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