

Indoor/Outdoor Premise Tight Buffered Cable

The AFL Indoor/Outdoor multi-fibre premise cables are constructed using 900 micron LSZH tight buffer fibres, stranded with water blocking aramid yarns and sheathed with a UV stable LSZH outer jacket. Specified for campus network cabling between buildings, where interbuilding lengths are short enough that the installer can recognize savings from the lower costs of terminating tight buffered cables.

For indoor applications, the cable is constructed completely of LSZH materials, PVC Free. For outdoor applications, the cable incorporates 'Dry' water blocking properties suitable for protected use in external covered tray or free draining conduit.

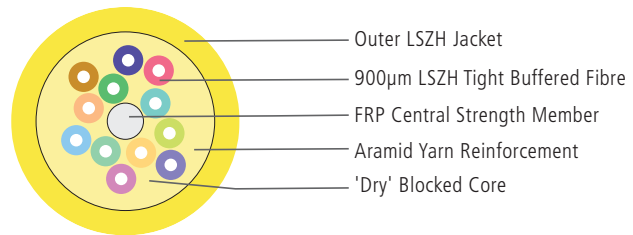
Features

- Available with 2 to 24 fibres
- Water-blocked
- LSZH UV-resistant outer jacket¹
- PVC Free construction
- RoHS 3 (EU Directive 2015/863)

Applications

- Campus LAN
- Building Interconnections
- LSZH inside plant and outside plant environments

Cable Components



Fibre Specifications

CORE SIZE/ FIBRE TYPE	ISO/ IEC	MAX. ATTENUATION (DB/KM)			OVERFILL LAUNCH MIN. BANDWIDTH (MHZ•KM)		G-ETHERNET MAX. LINK DISTANCE (METERS)		10G-ETHERNET MAX. LINK DISTANCE (METERS)	
		850 NM	(MM) 1300 NM (SM) 1310 NM	1550 NM	850 NM	(MM) 1300 NM (SM) 1310 NM	850 NM	(MM) 1300 NM (SM) 1310 NM	850 NM	(MM) 1300 NM (SM) 1310 NM
(62) 62.5µm Multimode	OM1	3.0	1.2	N/A	200	500	300	500	—	—
(53) 50µm Multimode	OM3	3.0	1.2	N/A	1,500	500	1,000	550	300	—
(55) 50µm Multimode	OM4	3.0	1.2	N/A	3,500	500	1,040	550	530	—
(1F) Single-mode (ITU G.652.D/G.657.A1)	OS1 / OS2	N/A	0.4	0.3	N/A	N/A	N/A	5,000	N/A	10,000

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Mechanical Data

CABLE TYPE	PART NUMBER	FIBRE COUNT	NOM. DIAMETER	NOM. WEIGHT	MAX TENSILE (INSTALLATION)	MIN BEND RADIUS (MM)		CRUSH (KN/100MM)		IMPACT
			(MM)	(KG/KM)	(KN)	UNDER LOAD (20 X OD)	NO LOAD (10 X OD)	SHORT TERM	LONG TERM	(J)
Indoor/ Outdoor Tight Buffered Cable	TVBQ**AA002 ^{††}	2	5.2	28	1	104	52	1.0	0.5	5
	TVBQ**AA004 ^{††}	4	5.4	30	1	108	54			
	TVBQ**AA006 ^{††}	6	5.8	34	1	116	58			
	TVBQ**AA008 ^{††}	8	6.3	41	1	126	63			
	TVBQ**AA012 ^{††}	12	6.4	43	1	128	64			
	TVBQ**AA024 ^{††}	24	8.1	63	1.3	162	81			

** Fibre Types - Replace (**) in AFL number with number in the Fibre Specifications table on previous page.

†† Outer Jacket Colour - Replaces (††) in the AFL number with letters in the Cable Jacket Colour table below

Cable Jacket Colour^{††} Options

BE - Blue	BK - Black
OE - Orange	YW - Yellow
GN - Green	PE - Purple
BN - Brown	PK - Pink
GY - Grey	AQ - Aqua
WE - White	EV - Erika Violet
RD - Red	

¹ All jacket colours are UV stable however not suitable for prolonged direct UV exposure
For best performance AFL recommends a Black Outer Jacket

Qualifications

GOVERNING BODY	STANDARD CODE	COMPONENT
AS/CA	S008	Cable
IEC	60794	Cable
Standards Australia	AS 1049	Materials
IEC	60793	Fibre
ITU-T	G.652.D / G.657.A1 / G.651.1	Fibre
TIA	598-D	Fibre
RoHS	EU Directive 2015/863	Cable
AS/NZS IEC	60332.1	Cable

Temperature Specifications

TEMPERATURE RANGE	
Installation	0°C to +60°C
Operation	-10°C to +70°C
Storage	-10°C to +70°C

Contact AFL for additional information or cable design assistance