



Low Smoke Zero Halogen OM1 Tight Buffered Optical Cable Suitable for Marine Applications

Document Information

Drawing Number	CSWL191003B-V1
Date	03/10/2019
Design	ADMIRAL OM1 TB GSWB SHF1

Cable Construction

Tight Buffered 62.5/125 µm Multi Mode OM1 Fibres

Multiple Fibres surrounded by Glass Yarn Strength Members

Extruded LSZH Inner Sheath

(Low Smoke Zero Halogen to BS 7655 LTS1-4, IEC 60092 SHF1, EN 50363 TM7)

Galvanised Steel Wire Braid

(In accordance with BS EN 10257-1)

Polyester (Melinex®/Mylar®) Separation Tape

Prevents bonding of adjacent materials to assist installation

Extruded LSZH Outer Sheath

(Low Smoke Zero Halogen to BS 7655 LTS1-4, IEC 60092 SHF1, EN 50363 TM7)



Colours & Identification

Fibre Identification

(TIA-598-C Colour Coding)

- | | |
|-----------|------------|
| 1. Blue | 7. Red |
| 2. Orange | 8. Black |
| 3. Green | 9. Yellow |
| 4. Brown | 10. Violet |
| 5. Grey | 11. Rose |
| 6. White | 12. Aqua |

Inner Sheath Colour

Black

Outer Sheath Colour

Black

Other colour options are available on request.

Properties & Standards

Standards

ITU G.651.1	ANSI/TIA/EIA 598-D
IEC 60793-1	EN 50173-1
IEC 60793-2	EN 50575
IEC 60794-2	EN 50399
ANSI/TIA 568-3.D	ISO/IEC 11801

Fibre Properties

Tight Buffered Fibres	62.5/125 µm
	Multi Mode OM1

Fire Performance

Flame Retardance	IEC 60332-1-2
Flame Retardance	IEC 60332-3-24 (Cat C)
Halogen Gas Content	IEC 60754-1
Gas Acidity	IEC 60754-2
Smoke Emission	IEC 61034

Properties and Standards may be indicative prior to manufacture and testing.

Nominal Dimensions

Tight Buffered Fibres 900 µm

Fibre Count	Bedding Ø (mm)	Braid Wire Ø (mm)	Sheath Ø (mm)
4	6.5	0.2	10.15
6	6.6	0.2	10.25
8	7	0.2	10.65
12	7	0.2	10.65
16	8	0.2	11.65
24	8.5	0.2	12.15

Dimensions are theoretical nominals calculated prior to manufacture.