

Steel Braid Protected Low Smoke Zero Halogen Cat5e U/UTP Data Cable for Marine Applications

Document Information

Drawing Number	CSWL190930C-V1
Date	30/09/2019
Design	ADMIRAL CAT5E U/UTP GSWB SHF1

Cable Construction

24 AWG Solid Plain Annealed Copper Conductor
(IEC 60228 Class 1)

Extruded PE Insulation
(Polyethylene)

2 Cores twisted together to form a Pair

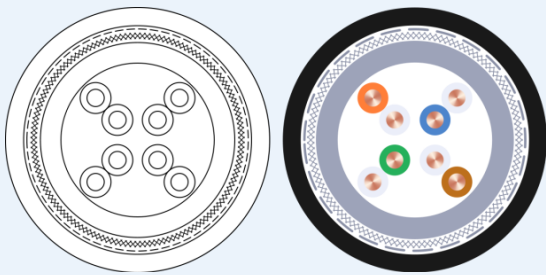
4 Pairs Laid Up

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

Pair Identification	Inner Sheath Colour
1 x White/Orange Pair	Grey
1 x White/Blue Pair	
1 x White/Brown Pair	Outer Sheath Colour
1 x White/Green Pair	Black

Properties & Standards

Standards
EN 50173-1, ISO/IEC 11801, ANSI/TIA 568.2-D

Electrical		
Voltage Rating	72	V
Maximum Conductor Resistance @20°C	95	Ω/km
Maximum Capacitance Unbalance	1600	pF/m
Maximum Mutual Capacitance	56	pF/m
Nominal Impedance	100	Ω
Nominal Velocity of Propagation	60	%
Maximum Delay Skew	40	ns/100m

Temperature	
Operating Temperature Range	-20°C to +70°C

Physical	
Minimum Bend Radius	5 x Overall Diameter

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

Inner Sheath Diameter	4.90	mm
Braid Armour Wire Size	0.20	mm
Outer Sheath Diameter	8.35	mm

Dimensions are theoretical nominals calculated prior to manufacture.