

## Steel Wire Braid Armour Protected Mud Oil Resistant 22AWG Profibus DP Communications Cable Suitable for Marine Applications



For illustrative purposes only. Not to scale. Stranding & proportion may vary.

### Document Information

<b>Drawing Number</b>	CSWL200612B-V1
<b>Date</b>	12/06/2020
<b>Design</b>	PROFIBUS DP IEC 61158-2

### Cable Construction

**22 AWG Stranded Tinned Annealed Copper Conductor**  
(19/0.15)

**Extruded PE Insulation**  
(Polyethylene)

**2 Cores Laid Up within Extruded PE Bedding**  
(Polyvinyl Chloride fully filled to interstices)

**Screened with Aluminium/Polyester tape laid conductive side out and in contact with Tinned Annealed Copper Wire Braid Screen**

**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)

**Extruded XL-LSZH-MOR Outer Sheath**  
(Mud/Oil Resistant Crosslinked Low Smoke Zero Halogen to NEK606 and IEC60092 SHF2)

### Colours & Identification

**Core Identification**  
1 x Red Core  
1 x Green Core

**Inner Sheath Colour**  
Black

**Bedding Colour**  
Natural/White

**Outer Sheath Colour**  
Black

### Properties & Standards

Electrical		
Operating Voltage	300	V
Test Voltage	1500	V
Conductor Resistance (Loop)	110	Ω/km
Screen Resistance	12.0	Ω/km
Mutual Capacitance	28.5	nF/km
Inductance	0.90	mH/km
Unbalance to earth	1.5	nF/km
Impedance (3 MHz)	150 ± 15	Ω

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

### Nominal Dimensions

Conductor Gauge	22	AWG
Conductor Stranding	19/0.15	mm
Diameter over Insulation	2.55	mm
Diameter over Inner Sheath	8.00	mm
Diameter over Steel Wire Armour	9.74	mm
Diameter over Outer Sheath	12.54	mm

Dimensions are theoretical nominals calculated prior to manufacture.