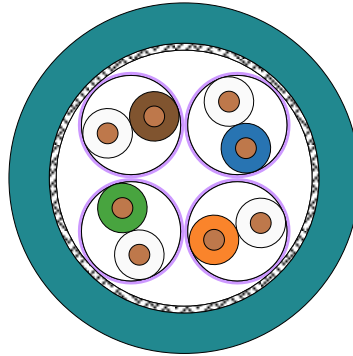


# SeaLine

## CAT 7 (SHF1)

Cable type: 02YSCH 4X2X0.6/1.43-100 PIMF



### Design

#### **Wire**

Bare copper wire (23 AWG)  
Insulation of foamed Polyethylene (PE) with skin

∅ 0.6 mm (0.024 in dia)  
∅ 1.43 mm (0.056 in dia)

#### **Screened pair**

2 wires twisted to a pair  
Alulaminat foil overlapped, applied longitudinally

#### **Core**

Central element: Strain relief (≥ 300N)  
4 screened pairs  
Sequence of colors: WH/BU-WH/OG-WH/GN-WH/BN  
Shield braiding of tinned copper wires  
Coverage about 65%

#### **Jacket**

Thermoplastic copolymer (FRNC) TQ (RAL 5018) ∅ (8.7 ± 0.4) mm (0.343 ± 0.016 in dia)

Printing: "sequential length in metres" BizLink **SeaLine** SCG ArcticGrade \* L45467-J416-C1036 \*  
02YSCH 4X2X0.6/1.43-100 PIMF CAT7 IEC 60332-3-22 SHF1 \* "internal lot number"

### **Electrical data at 20°C**

Loop resistance	≤	190	Ohm/km
Insulation resistance	≥	5	GOhm*km
Capacitance (1 kHz)	≈	48	nF/km
Operating voltage (peak)	≤	100	V
Characteristic impedance (100 MHz)		(100 ± 5)	Ohm
Test voltage (wire/wire/screen rms 50Hz 1min)		700	V

Frequency (MHz)	1	4	10	16	20	31.25	62.5	100	155	200	300	600
Next (dB)	78.0	78.0	78.0	78.0	78.0	78.0	75.5	72.4	69.5	67.9	65.2	60.7
PSNext (dB)	75.0	75.0	75.0	75.0	75.0	75.0	72,5	69,4	66,5	64.9	62.2	57.7
ELFext (dB)	78.0	78.0	75.3	71.2	69.3	65.4	59.4	55.3	51.5	49.3	45.8	39.7
PSELfext (dB)	75.0	75.0	72.3	68.2	66.3	62.4	56.4	52.3	48.5	46.3	42.8	36.7
Attenuation (dB/100m)	2.0	3.7	5.9	7.4	8.3	10.4	14.9	19.0	24.0	27.5	34.2	50.1
Return loss (dB)	20	23	25	25	25	23.6	21.5	20.1	18.8	18.0	17.3	17.3

Electrical requirements acc. to. IEC 61156-5 (2020)

### Mechanical and thermal characteristics

Conductor material acc. to DIN EN 13602 Cu-ETP-A...

Screen material acc. to DIN EN 13602 Cu-ETP-A...-B

Insulating material acc. to DIN EN 50290-2-23 (VDE 0819), table 2/A (HD 624.3) (02Y)

Jacket material acc. to IEC 60092-360 (IEC 60092-359) SHF1

Oil resistant acc. to IEC 60811-2-1 (4 hours / 70°C)

Flame retardant acc. to IEC 60332-1-2

Flame retardant acc. to IEC 60332-3-22 (Cat. A)

Approved for Marine and Offshore Applications

| DNV Certificate No. TAE00004EJ

### Other characteristics

RoHS compliant (Directive 2011/65/EU & 2015/863/EU RoHS 3)

Permissible temperature range

Transport and fixed installation: -65 °C (-85 °F) up to 80 °C (176 °F)

Installation and flexible use : -65 °C (-85 °F) up to 80 °C (176 °F)

Min. bending radius allowed : repeated 10X ø, single 5X ø

Weight about : 83 kg/km (56 lb/1000ft)

### Designation of order

L45467-J416-C1036

239472

02YSCH 4X2X0.6/1.43-100 PIMF TQ

1000 m (3281 ft) on non-returnable reel

Product has not been tested and classified according to the CPR (EU/305/2011).

The product shall not be permanently installed in buildings in the EU.

FELTEN Wire and Cable Solutions BV reserves the right to make changes to the product described in this specification without prior notice. FELTEN does not assume any liability which may occur due to the use of the specification described herein. Drawings are not to scale unless otherwise specified and are provided for general and informational purposes only. All values represented in this specification should be used as a guide only and exact product details can be confirmed at point of enquiry.