

Instrumentation Cables

LJST-HF
150/250 (300) V
(TEMA-TA)



Design

Marine Cables

Armoured Instrumentation and Telecommunication Cable

- > **Conductor**
Stranded annealed plain copper conductor
- > **Insulation**
Extruded XLPE
- See page 29 for core identification colours and numbers
- > **Pair**
White and blue cores are twisted to pair (see page 29)
- > **Armour (common screen)**
Combined electrical and mechanical protection
Braid of copper wires
- Drain conductor
- > **Sheath**
Extruded black halogen free polyolefine, SHF1

Standards

- > **Construction**
IEC 60092-376 and IEC 60092-350
- > **Materials**
IEC 60228 Class 2 (conductor)
IEC 60092-351 (insulation)
IEC 60092-359 (sheath)
- > **Flame Retardance**
IEC 60332-3-22 (cat A) and IEC 60332-1
- > **Halogen Free Properties**
IEC 60754-1 and -2
- > **Low Smoke Emission**
IEC 61034-1 and -2
- > **Tests**
IEC 60092-376
- > **Maximum conductor temperature +90 °C**



Size (n x 2 x mm ²)	Conductor Diameter approx. (mm)	Screen Diameter approx. (mm)	Cable Diameter approx. (mm)	Weight approx. (kg/km)	Bending Radius min. (mm)
1x2x0,5	0,9	5,5	7,5	85	45
2x2x0,5 (quad)	0,9	6,5	8,5	105	55
4x2x0,5	0,9	10,0	12,0	180	75
7x2x0,5	0,9	11,5	14,0	250	85
8x2x0,5	0,9	12,5	15,0	270	90
10x2x0,5	0,9	14,0	17,0	350	105
12x2x0,5	0,9	15,0	18,0	400	110
14x2x0,5	0,9	16,0	19,0	450	115
19x2x0,5	0,9	18,0	21,5	570	130
24x2x0,5	0,9	20,0	24,0	680	145
37x2x0,5	0,9	24,5	28,5	950	175
1x2x0,75	1,1	5,7	8,0	90	50
2x2x0,75 (quad)	1,1	6,7	9,0	125	55
4x2x0,75	1,1	10,5	13,0	210	85
7x2x0,75	1,1	12,5	15,0	300	95
8x2x0,75	1,1	13,5	16,5	350	70
10x2x0,75	1,1	15,0	18,5	450	115
12x2x0,75	1,1	16,5	19,5	520	125
14x2x0,75	1,1	17,5	21,0	570	130
19x2x0,75	1,1	20,0	24,0	730	150
24x2x0,75	1,1	23,0	27,0	890	165
37x2x0,75	1,1	28,5	32,0	1300	200

(quad) construction used in two pair cables:



Electrical data (according to IEC 60092-376)

n x 2 x mm ²	Conductor resistance at 20 °C max Ω/km	Insulation resistance min MΩ x km
n x 2 x 0,5	40,4	1030
n x 2 x 0,75	26,0	1020

Characteristic properties (approximate values)

Variable	Value	
Working capacitance	single pair	60 nF/km
	multi pair	50 nF/km
Loop inductance	0,7 mH/km	