Instrumentation Cables

Marine Cables

LJT-HF
150/250 (300) V
(TEMA-TO)

Screened Instrumentation and Telecommunication Cable

Design

- **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)
- **Common screen**
  Plastic coated aluminium tape
  - Tinned copper drain wire
  - Coverage 100 %
- **Sheath**
  Extruded black halogen free polyolefine, SHF1

Standards

- **Construction**
  IEC 60092-376
- **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**

PRYSMIAN CABLES & SYSTEMS

Size (n x 2 x mm²)	Conductor Diameter approx. (mm)	Cable Diameter approx. (mm)	Cable Weight approx. (kg/km)	Bending Radius min. (mm)
1x2x0,5	0,9	6,6	50	55
2x2x0,5 (quad)	0,9	7,5	70	60
4x2x0,5	0,9	11,5	120	90
7x2x0,5	0,9	13,5	180	110
8x2x0,5	0,9	14,5	200	120
10x2x0,5	0,9	16,0	250	130
12x2x0,5	0,9	17,0	300	135
14x2x0,5	0,9	18,0	330	145
19x2x0,5	0,9	21,0	420	170
24x2x0,5	0,9	23,0	520	185
1x2x0,75	1,1	7,5	60	60
2x2x0,75 (quad)	1,1	8,5	85	70
4x2x0,75	1,1	12,5	155	100
7x2x0,75	1,1	14,5	230	120
8x2x0,75	1,1	15,5	270	125
10x2x0,75	1,1	17,5	320	140
12x2x0,75	1,1	18,0	380	145
14x2x0,75	1,1	19,5	420	160
19x2x0,75	1,1	22,0	560	180
24x2x0,75	1,1	24,5	690	200

(quad) construction used in two pair cables:

Electrical data (according to IEC 60092-375)

n x 2 x mm²	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 0,5	45 nF/km
	multi pair 0,75	50 nF/km
Loop inductance		0,7 mH/km