

INSTRUMENTATION CABLE

HALOGEN FREE,LOW SMOKE DENSITY,FIRE RESISTANT INSTRUMENTATION AND TELECOMMUNICATION CABLE



■ **Design**

1. Conductor

Electrolytic,stranded,tinned copper wire IEC 60228 Class 2

2. Seperator

Mica Tape over conductor

3. Insulation

Halogen free EPR or Halogen free HEPR compound

LAYUP

Cores laid up in pairs/triads,pairs/triads laid up concentrically.

4. Drain Wire

Electrolytic,stranded,tinned copper drain wire along with every pair/triad.

5. Individual Screen:

Electrolytic copper backed polyester tape screen (100%coverage) over every pair/triad and drain wire.

6.Collective Screen:

Electrolytic copper backed polyester tape is applied over the laid up pairs metallic side down and in continuous contact with tinned copper drain wire

7. Bedding

Halogen free compound.

8. Screen:

Electrolytic, tinned copper braided screen (%90 coverage)

9. Outer Sheath:

SHF2 Compound

Customer- Project	Type of Document	Doc. No.
	Technical Specification	2019-10-TS_24

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Oct.04	00	1/3

■ Production and Test Standarts

CONSTRUCTION :	NEK 606, IEC 60092/376
TESTS AND MATERIAL :	IEC 60092 /350-351-360
FLAME RETARDATION :	IEC 60332 /1, IEC 60332 / 3 Cat A
FIRE RESISTANCE :	IEC 60331
HALOGEN CONTENT :	IEC 60754 / 1 - 2
SMOKE DENSITY :	IEC 61034 / 1-2 (DIN EN 50268/1-2)
WORKING TEMPERATURE :	-15°C / + 90°C, On request -40°C / + 90°C (Optional)
MIN. BENDING RADIUS (FIXED) :	10 x(overall diameter)
RATED VOLTAGE :	250 V
TEST VOLTAGE :	1,5 kV

■ APPLICATION

Fixed installation cable for signal, and communication.

■ ENVIRONMENT

Usable at all conditions in marine environment such as muddy, dry, wet or oily locations.

■ SAFETY

Even at direct contact with fire, it will sustain the connection for as long as stated in related standards. That provides necessary equipment (fire alarm and extinguishing systems, water pumps, communication, radio, control systems, lightning, etc.) to work uninterrupted during a fire. Due to its' halogen free and flame retardant features, it won't create corrosive gases and prevents the fire from spreading around during a fire and helps extinguishing the fire. Low smoke density reduces the risk of suffocation and smoke density reduces the risk of suffocation and keeps visibility around the fire zone.



Halogen Free



Low Smoke
Density



Flame Retardation



Oil Resistant



Rated Voltage



Test Voltage



Working Temperature



Bending Radius

■ Physical Characteristics

Pair x size	Cable O.D Approx.	Approx Weight
No. x mm ²	mm	kg/km
1 x 2 x 1,5	13,00 ±%5	222
2 x 2 x 1,5	19,50 ±%5	445
4 x 2 x 1,5	22,50 ±%5	600
8 x 2 x 1,5	30,50 ±%5	997
12 x 2 x 1,5	36,00 ±%5	1.450