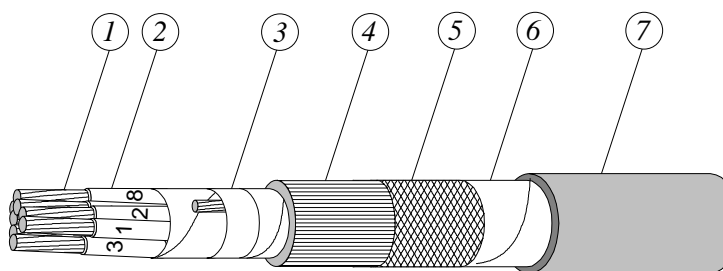


Instrumentation cable, HUCOM-TIOI(c) 250V, Braided



Halogen-free cables HUCOM-TIOI(c) 250V

**Flame retardant
Instrumentation cable**

**Maximum operating
Conductor temperature** : 85°C

Operating voltage : 250V

Application

Armoured cable for fixed installations in ships.
Suitable for use on instrumentation and communication systems.

Standards applied

IEC: 60092-376	- Design guidelines
IEC: 60332-3-22	- Flame retardance
IEC: 60754-1,2	- Halogen-free properties
IEC: 61034-1,2	- Smoke density

CONSTRUCTION

	CODE LETTER	
Conductor		Annealed, stranded copper (1)
Insulation	T	Cross-linked Polyethylene, XLPE (2)
Twinning/ Screening	(c)	Numbered cores twisted to pair/triple/quad and wrapped with polyester tape. Pairs/triple/quad are laid up and collectively screened by aluminium polyester tape with tinned copper drain wire 0,5 mm ² (3)
Inner sheath	I	Flame retardant halogen-free thermoplastic compound, SHF1 (4)
Armour	O	Tinned copper wire braid (5) PETP-tape (6)
Outer sheath	I	Flame retardant halogen-free thermoplastic compound, SHF1 (7)
Marking		E.g.: "meter" "year" DRAKA 01 HUCOM-TIOI(c) 250V 4 x 2 x 0,75 mm ² IEC 60332-3-22 <i>ShipLinePlus</i>
Colour		Grey

Pair identification:

The pairs have the following number identification according to IEC 60092 - 376.

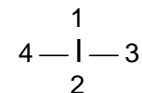
Pair no.1..... core no. 1 and 2

Pair no.2..... core no. 3 and 4

Pair no.3..... core no. 5 and 6

Pair no.4..... etc.

The single triple is identified with No. 1, 2 and 3



The single quad cable has the following identification:

RANGE AND DIMENSIONS: HUCOM-TIOI(c) 250V Instrumentation cable.

No. of pairs and conductor area (mm ²)	Conductor diameter approx. (mm)	Insulation thickness (mm)	Thickness inner sheath (mm)	Diameter over inner sheath (mm)	Diameter Armour Wire (mm)	Thickness outer sheath (mm)	Diameter overall (mm)	Weight of cable approx. (kg/km)	Copper content approx. (kg/km)
1 x 2 x 0,75	1,10	0,5	1,0	6,5±0,5	0,2	0,8	8,5±0,5	120	49
1 x 3 x 0,75	1,10	0,5	1,0	6,5±0,5	0,2	0,8	9,0±0,5	140	63
1 x 4 x 0,75	1,10	0,5	1,0	7,0±0,5	0,2	0,8	9,5±0,5	155	70
3 x 2 x 0,75	1,10	0,5	1,1	10,5±0,8	0,2	0,9	13,0±0,8	230	99
4 x 2 x 0,75	1,10	0,5	1,1	11,5±0,8	0,3	0,9	14,5±0,8	300	145
7 x 2 x 0,75	1,10	0,5	1,2	14,0±0,8	0,3	0,9	17,0±0,8	405	203
10 x 2 x 0,75	1,10	0,5	1,3	17,5±0,8	0,3	1,0	20,5±1,0	560	279
14 x 2 x 0,75	1,10	0,5	1,4	19,5±0,8	0,3	1,1	22,5±1,0	700	352
19 x 2 x 0,75	1,10	0,5	1,5	21,0±1,0	0,3	1,1	24,5±1,0	835	423
24 x 2 x 0,75	1,10	0,5	1,6	24,5±1,0	0,3	1,2	28,0±1,0	1030	520

Electrical Characteristics:

Type (mm ²)	Capacitance approx. (nF/km)	Inductance approx. (mH/km)	Resistance at 20°C maximum (Ohm/km)
Single pair/triple 0,75	70	0,64	26,0
Single quad 0,75	60	0,51	26,0
Multi pair/triple 0,75	75	0,60	26,0

Installation recommendations:

In accordance with IEC 60092-352

Minimum bending radius		Maximum pulling Tension	Minimum installation Temperature
During installation	Fixed installed		
8 x cable diameter	6 x cable diameter	50 N x total cross section of conductors	-10 °C

We reserve the right to alter this specification without notice.

