

H-FLEX INS C-PUR

250 V

Screened instrumentation and control cable



• FLAME-RETARDANT • OIL & CHEMICAL RESISTANT • HALOGEN-FREE • MUD RESISTANT

CONDUCTOR	Stranded copper conductor IEC 60228 class5
INSULATION	XLPE plastic
TWISTED PAIR	Two insulated cores twisted together to form a pair See next page for Quad
SCREEN	Copper wire braid, coverage > 94%
SHEATH	Polyurethane compound Standard colour black, other colours on request

CE

RoHS

UL US

APPLICATION

Intended for flexible, portable and movable applications such as ship-to-shore cable, outdoor cranes and various industrial applications. Suitable for flexible applications in machineries, machine tools, robot technics, and can be submersed into water. Good mechanical characteristics, high tensile strength, resistant to UV, abrasion, chemicals, oil and other fluids. Good winding and unwinding strength. Suitable for drag-chain, festoon and reel installations. Mud resistant according to NEK606.

PHYSICAL PROPERTIES

MIN. BENDING RADIUS	Fixed: $4 \times \varnothing < 25 \text{ mm} < 6 \times \varnothing$ Mobile: $8 \times \varnothing < 25 \text{ mm} < 10 \times \varnothing$ S-shape deflection: $15 \times \varnothing < 25 \text{ mm} < 20 \times \varnothing$
MAX. TENSILE LOAD WITHOUT STRENGTH MEMBERS	15 N/mm ² of phases copper cross section
CORE IDENTIFICATION	White and blue insulation with black numbers
MARINE TYPE APPROVALS	ABS, BV and DNV

MAIN CHARACTERISTICS

FIRE PERFORMANCE	IEC 60332-1-2, test for single cable
RATED VOLTAGE	150/250 V (300 V)
HALOGEN-FREE	IEC 60754 series
MECHANICAL FLEX TEST	EN 50396 - conditions acc. to EN 50525
OIL RESISTANCE	EN 60811-404 - conditions acc. to EN 50363-10-2
OPERATING TEMPERATURE	-60 - 80 °C fixed use -35 - 80 °C flexible use
MAX. CONDUCTOR TEMPERATURE	90 °C

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Part number	Number of conductors & cross-section n x mm ²	Screen Cross-section (mm ²)	Nominal outer Ø (mm)	Weight kg/km
5700103012	1 x 2 x 0.5	2.6	7.0	60
5700103013	1 x 3 x 0.5	2.6	7.5	70
5700103014	1 x 4 x 0.5	2.6	8.0	75
5700103022	2 x 2 x 0.5	3.3	10.0	100
5700103032	3 x 2 x 0.5	3.5	10.5	115
5700103042	4 x 2 x 0.5	3.9	11.5	135
5700103072	7 x 2 x 0.5	4.7	13.5	195
5700103082	8 x 2 x 0.5	5.1	14.0	210
5700103102	10 x 2 x 0.5	6.0	16.0	260
5700103122	12 x 2 x 0.5	6.2	16.5	290
5700103142	14 x 2 x 0.5	7.0	17.5	330
5700103162	16 x 2 x 0.5	7.1	19.0	365
5700103192	19 x 2 x 0.5	7.7	20.0	415
5700103242	24 x 2 x 0.5	8.6	22.5	515
5700103272	27 x 2 x 0.5	9.1	23.5	565
5700103302	30 x 2 x 0.5	9.6	24.5	625
5700103322	32 x 2 x 0.5	9.9	25.5	655
5700103372	37 x 2 x 0.5	10.6	27.0	735
5700104012	1 x 2 x 0.75	2.6	7.5	70
5700104013	1 x 3 x 0.75	2.6	8.0	80
5700104014	1 x 4 x 0.75	2.7	9.0	100
5700104022	2 x 2 x 0.75	3.9	11.0	120
5700104032	3 x 2 x 0.75	4.0	11.5	145
5700104042	4 x 2 x 0.75	4.5	13.0	175
5700104072	7 x 2 x 0.75	5.5	15.0	250
5700104082	8 x 2 x 0.75	6.0	16.0	285
5700104102	10 x 2 x 0.75	7.1	18.0	350
5700104122	12 x 2 x 0.75	7.1	19.0	395
5700104142	14 x 2 x 0.75	7.7	20.0	440
5700104162	16 x 2 x 0.75	8.2	21.5	505
5700104192	19 x 2 x 0.75	8.9	23.0	580
5700104242	24 x 2 x 0.75	10.0	25.5	715
5700104272	27 x 2 x 0.75	10.6	27.0	785
5700104302	30 x 2 x 0.75	11.2	28.0	855
5700104322	32 x 2 x 0.75	11.5	29.0	905
5700104372	37 x 2 x 0.75	12.2	31.0	1040
5700107012	1 x 2 x 1.5	3.3	10.0	105
5700107013	1 x 3 x 1.5	3.3	10.0	140
5700107014	1 x 4 x 1.5	3.9	11.0	150
5700107022	2 x 2 x 1.5	5.1	14.0	185
5700107032	3 x 2 x 1.5	5.4	15.0	230
5700107042	4 x 2 x 1.5	6.0	16.5	285
5700107072	7 x 2 x 1.5	7.4	19.5	425
5700107082	8 x 2 x 1.5	8.0	21.0	490
5700107102	10 x 2 x 1.5	9.3	24.0	600
5700107122	12 x 2 x 1.5	9.8	25.0	685
5700107142	14 x 2 x 1.5	10.6	26.5	780
5700107162	16 x 2 x 1.5	11.2	28.5	875
5700107192	19 x 2 x 1.5	12.2	30.5	1010
5700107242	24 x 2 x 1.5	13.6	34.0	1265
5700107272	27 x 2 x 1.5	14.4	36.0	1395
5700107302	30 x 2 x 1.5	15.3	37.5	1540
5700107322	32 x 2 x 1.5	15.7	38.5	1625
5700108012	1 x 2 x 2.5	3.6	11.0	135
5700108013	1 x 3 x 2.5	3.9	11.5	165
5700108014	1 x 4 x 2.5	4.3	12.5	205
5700108022	2 x 2 x 2.5	6.0	16.0	250
5700108032	3 x 2 x 2.5	6.3	17.0	315
5700108042	4 x 2 x 2.5	7.1	18.5	390
5700108072	7 x 2 x 2.5	8.6	22.5	620
5700108082	8 x 2 x 2.5	9.3	24.0	695
5700108102	10 x 2 x 2.5	10.8	27.5	865
5700108122	12 x 2 x 2.5	11.3	28.5	995
5700108142	14 x 2 x 2.5	12.2	30.5	1130
5700108162	16 x 2 x 2.5	13.1	32.5	1290
5700108192	19 x 2 x 2.5	14.2	35.0	1505
5700108242	24 x 2 x 2.5	16.1	39.5	1890