

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 Tinned stranded copper conductor on request
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% Tinned copper wire braid on request
SHEATH	Polyurethane compound Standard colour black, other colours on request



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 use. 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	RMRS, DNV-GL, BV and ABS

MAIN CHARACTERISTICS:

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

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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	1x2x0.5	2,6	7.0	60
5700103013	1x3x0.5	2,6	7.5	70
5700103014	1x4x0.5	2,6	8.0	75
5700103022	2x2x0.5	3,3	10.0	100
5700103032	3x2x0.5	3,5	10.5	115
5700103042	4x2x0.5	3,9	11.5	135
5700103072	7x2x0.5	4,7	13.5	195
5700103082	8x2x0.5	5,1	14.0	210
5700103102	10x2x0.5	6,0	16.0	260
5700103122	12x2x0.5	6,2	16.5	290
5700103142	14x2x0.5	7,0	17.5	330
5700103162	16x2x0.5	7,1	19.0	365
5700103192	19x2x0.5	7,7	20.0	415
5700103242	24x2x0.5	8,6	22.5	515
5700103272	27x2x0.5	9,1	23.5	565
5700103302	30x2x0.5	9,6	24.5	625
5700103322	32x2x0.5	9,9	25.5	655
5700103372	37x2x0.5	10,6	27.0	735
5700104012	1x2x0.75	2,6	7.5	70
5700104013	1x3x0.75	2,6	8.0	80
5700104014	1x4x0.75	2,7	9.0	100
5700104022	2x2x0.75	3,9	11.0	120
5700104032	3x2x0.75	4,0	11.5	145
5700104042	4x2x0.75	4,5	13.0	175
5700104072	7x2x0.75	5,5	15.0	250
5700104082	8x2x0.75	6,0	16.0	285
5700104102	10x2x0.75	7,1	18.0	350
5700104122	12x2x0.75	7,1	19.0	395
5700104142	14x2x0.75	7,7	20.0	440
5700104162	16x2x0.75	8,2	21.5	505
5700104192	19x2x0.75	8,9	23.0	580
5700104242	24x2x0.75	10,0	25.5	715
5700104272	27x2x0.75	10,6	27.0	785
5700104302	30x2x0.75	11,2	28.0	855
5700104322	32x2x0.75	11,5	29.0	905
5700104372	37x2x0.75	12,2	31.0	1040
5700107012	1x2x1.5	3,3	10.0	105
5700107013	1x3x1.5	3,3	10.0	140
5700107014	1x4x1.5	3,9	11.0	150
5700107022	2x2x1.5	5,1	14.0	185
5700107032	3x2x1.5	5,4	15.0	230
5700107042	4x2x1.5	6,0	16.5	285
5700107072	7x2x1.5	7,4	19.5	425
5700107082	8x2x1.5	8,0	21.0	490
5700107102	10x2x1.5	9,3	24.0	600
5700107122	12x2x1.5	9,8	25.0	685
5700107142	14x2x1.5	10,6	26.5	780
5700107162	16x2x1.5	11,2	28.5	875
5700107192	19x2x1.5	12,2	30.5	1010
5700107242	24x2x1.5	13,6	34.0	1265
5700107272	27x2x1.5	14,4	36.0	1395
5700107302	30x2x1.5	15,3	37.5	1540
5700107322	32x2x1.5	15,7	38.5	1625
5700108012	1x2x2.5	3,6	11.0	135
5700108013	1x3x2.5	3,9	11.5	165
5700108014	1x4x2.5	4,3	12.5	205
5700108022	2x2x2.5	6,0	16.0	250
5700108032	3x2x2.5	6,3	17.0	315
5700108042	4x2x2.5	7,1	18.5	390
5700108072	7x2x2.5	8,6	22.5	620
5700108082	8x2x2.5	9,3	24.0	695
5700108102	10x2x2.5	10,8	27.5	865
5700108122	12x2x2.5	11,3	28.5	995
5700108142	14x2x2.5	12,2	30.5	1130
5700108162	16x2x2.5	13,1	32.5	1290
5700108192	19x2x2.5	14,2	35.0	1505
5700108242	24x2x2.5	16,1	39.5	1890