

H-FLEX INS PUR

250 V

Unscreened 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
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: $6 \times \varnothing < 25 \text{ mm} < 8 \times \varnothing$ 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	No. of conductors x Conductor area (mm ²)	Nominal outer Ø (mm)	Weight kg/km
5900103012	1x2x0.5	6.0	35
5900103013	1x3x0.5	6.5	40
5900103014	1x4x0.5	7.0	50
5900103022	2x2x0.5	9.0	55
5900103032	3x2x0.5	9.0	70
5900103042	4x2x0.5	10.5	95
5900103072	7x2x0.5	12.5	140
5900103082	8x2x0.5	13.0	160
5900103102	10x2x0.5	15.0	195
5900103122	12x2x0.5	15.5	230
5900103142	14x2x0.5	16.5	260
5900103162	16x2x0.5	17.5	290
5900103192	19x2x0.5	19.0	335
5900103242	24x2x0.5	21.5	430
5900103272	27x2x0.5	22.5	475
5900103302	30x2x0.5	23.5	520
5900103322	32x2x0.5	24.0	550
5900103372	37x2x0.5	26.0	630
5900104012	1x2x0.75	7.0	40
5900104013	1x3x0.75	7.0	50
5900104014	1x4x0.75	7.5	65
5900104022	2x2x0.75	10.0	80
5900104032	3x2x0.75	10.5	100
5900104042	4x2x0.75	11.5	125
5900104072	7x2x0.75	14.0	195
5900104082	8x2x0.75	15.0	225
5900104102	10x2x0.75	17.0	275
5900104122	12x2x0.75	18.0	320
5900104142	14x2x0.75	19.0	365
5900104162	16x2x0.75	20.0	410
5900104192	19x2x0.75	22.0	490
5900104242	24x2x0.75	24.5	610
5900104272	27x2x0.75	26.0	675
5900104302	30x2x0.75	27.0	750
5900104322	32x2x0.75	28.0	790
5900104372	37x2x0.75	29.5	895
5900107012	1x2x1.5	8.5	65
5900107013	1x3x1.5	9.0	85
5900107014	1x4x1.5	10.0	110
5900107022	2x2x1.5	13.0	135
5900107032	3x2x1.5	14.0	175
5900107042	4x2x1.5	15.0	215
5900107072	7x2x1.5	18.5	345
5900107082	8x2x1.5	20.0	395
5900107102	10x2x1.5	23.0	500
5900107122	12x2x1.5	24.0	580
5900107142	14x2x1.5	25.5	675
5900107162	16x2x1.5	27.0	755
5900107192	19x2x1.5	29.5	890
5900107242	24x2x1.5	33.0	1130
5900107272	27x2x1.5	35.0	1255
5900107302	30x2x1.5	36.5	1375
5900107322	32x2x1.5	38.0	1470
5900108012	1x2x2.5	10.0	100
5900108013	1x3x2.5	10.5	125
5900108014	1x4x2.5	11.5	155
5900108022	2x2x2.5	15.0	185
5900108032	3x2x2.5	15.5	245
5900108042	4x2x2.5	17.5	320
5900108072	7x2x2.5	21.0	520
5900108082	8x2x2.5	23.0	600
5900108102	10x2x2.5	26.0	750
5900108122	12x2x2.5	27.5	875
5900108142	14x2x2.5	29.5	1010
5900108162	16x2x2.5	31.5	1140
5900108192	19x2x2.5	34.0	1355
5900108242	24x2x2.5	38.0	1705