

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
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

Unscreened instrumentation and control cable. 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: $6 \times \varnothing < 25 \text{ mm} < 8 \times \varnothing$ 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	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	No. of conductors x Conductor area (mm ²)	Nominal outer Ø (mm)	Weight kg/km
5900103012	1 x 2 x 0.5	6.0	35
5900103013	1 x 3 x 0.5	6.5	40
5900103014	1 x 4 x 0.5	7.0	50
5900103022	2 x 2 x 0.5	9.0	55
5900103032	3 x 2 x 0.5	9.0	70
5900103042	4 x 2 x 0.5	10.5	95
5900103072	7 x 2 x 0.5	12.5	140
5900103082	8 x 2 x 0.5	13.0	160
5900103102	10 x 2 x 0.5	15.0	195
5900103122	12 x 2 x 0.5	15.5	230
5900103142	14 x 2 x 0.5	16.5	260
5900103162	16 x 2 x 0.5	17.5	290
5900103192	19 x 2 x 0.5	19.0	335
5900103242	24 x 2 x 0.5	21.5	430
5900103272	27 x 2 x 0.5	22.5	475
5900103302	30 x 2 x 0.5	23.5	520
5900103322	32 x 2 x 0.5	24.0	550
5900103372	37 x 2 x 0.5	26.0	630
5900104012	1 x 2 x 0.75	7.0	40
5900104013	1 x 3 x 0.75	7.0	50
5900104014	1 x 4 x 0.75	7.5	65
5900104022	2 x 2 x 0.75	10.0	80
5900104032	3 x 2 x 0.75	10.5	100
5900104042	4 x 2 x 0.75	11.5	125
5900104072	7 x 2 x 0.75	14.0	195
5900104082	8 x 2 x 0.75	15.0	225
5900104102	10 x 2 x 0.75	17.0	275
5900104122	12 x 2 x 0.75	18.0	320
5900104142	14 x 2 x 0.75	19.0	365
5900104162	16 x 2 x 0.75	20.0	410
5900104192	19 x 2 x 0.75	22.0	490
5900104242	24 x 2 x 0.75	24.5	610
5900104272	27 x 2 x 0.75	26.0	675
5900104302	30 x 2 x 0.75	27.0	750
5900104322	32 x 2 x 0.75	28.0	790
5900104372	37 x 2 x 0.75	29.5	895
5900107012	1 x 2 x 1.5	8.5	65
5900107013	1 x 3 x 1.5	9.0	85
5900107014	1 x 4 x 1.5	10.0	110
5900107022	2 x 2 x 1.5	13.0	135
5900107032	3 x 2 x 1.5	14.0	175
5900107042	4 x 2 x 1.5	15.0	215
5900107072	7 x 2 x 1.5	18.5	345
5900107082	8 x 2 x 1.5	20.0	395
5900107102	10 x 2 x 1.5	23.0	500
5900107122	12 x 2 x 1.5	24.0	580
5900107142	14 x 2 x 1.5	25.5	675
5900107162	16 x 2 x 1.5	27.0	755
5900107192	19 x 2 x 1.5	29.5	890
5900107242	24 x 2 x 1.5	33.0	1130
5900107272	27 x 2 x 1.5	35.0	1255
5900107302	30 x 2 x 1.5	36.5	1375
5900107322	32 x 2 x 1.5	38.0	1470
5900108012	1 x 2 x 2.5	10.0	100
5900108013	1 x 3 x 2.5	10.5	125
5900108014	1 x 4 x 2.5	11.5	155
5900108022	2 x 2 x 2.5	15.0	185
5900108032	3 x 2 x 2.5	15.5	245
5900108042	4 x 2 x 2.5	17.5	320
5900108072	7 x 2 x 2.5	21.0	520
5900108082	8 x 2 x 2.5	23.0	600
5900108102	10 x 2 x 2.5	26.0	750
5900108122	12 x 2 x 2.5	27.5	875
5900108142	14 x 2 x 2.5	29.5	1010
5900108162	16 x 2 x 2.5	31.5	1140
5900108192	19 x 2 x 2.5	34.0	1355
5900108242	24 x 2 x 2.5	38.0	1705