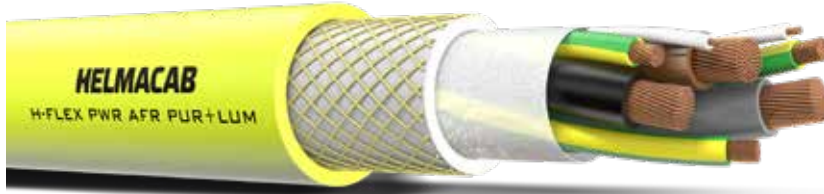


H-FLEX PWR AFR PUR+LUM

0.6/1 kV

Reinforced retroreflective umbilical power cable



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

CONDUCTOR	Stranded annealed copper conductor, IEC 60228 class5
INSULATION	XLPE
STRANDING	Cores stranded together
LONGITUDINAL REINFORCEMENT	Braided aramid yarns in outer sheath
SHEATH	Halogen-free Thermoplastic Polyurethane acc. to EN 50363-10-2/TMPU Standard colour luminescent yellow
REFERENCE STANDARD	Helmacab specification, adapted to and tested according to IEC 60502-1 series and IEC 60092-353

APPLICATION

Aramid braiding reinforced, flame-retardant and highly flexible umbilical power cable for extreme conditions. Retroreflective and phosphorescent outer sheath provides improved visibility in dark lighting conditions, with longevity and without diminishing properties. Aramid braiding reinforced to withstand immense tensile loads up to 1500kg. Intended for flexible, portable and movable applications in machineries, machine tools and robot technics. Can be submersed into water and permanently installed under 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.

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	Brown, Black, Grey, Y/G (PE), pilot wires

MAIN CHARACTERISTICS

FIRE PERFORMANCE	IEC 60332-1-2
RATED VOLTAGE	AC 0.6/1 kV (1.2 kV) DC 0.9/1.5 kV (if voltage to earth does not exceed 0.9 kV)
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 °C to +80 °C fixed use -35 °C to +80 °C flexible use
MAX. CONDUCTOR TEMPERATURE	+90 °C
LUMINOSITY	0,01 lm up to 9h 0,005 lm > 12h



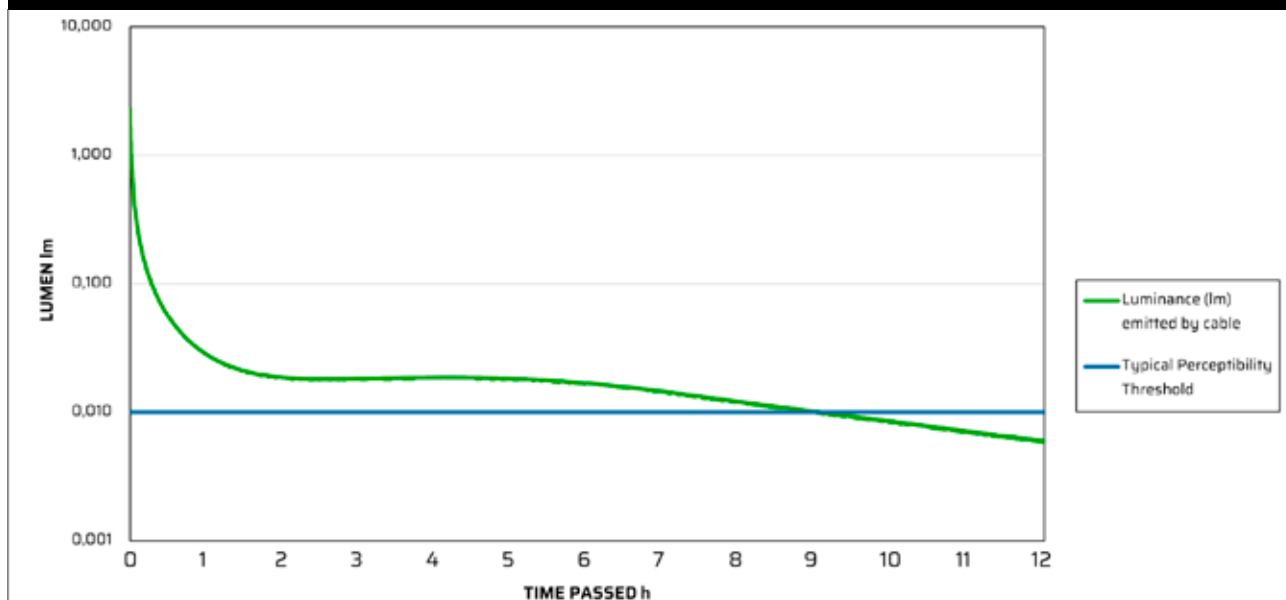
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Main conductors (mm ²)	PE conductors (mm ²)	Pilot conductors (mm ²)	Nominal outer Ø (mm)	Weight kg/km	Current carrying capacity @30 °C* Laid straight	Part number
3 x 25	3 x 6	2 x 1.0	25.8	1150	131	5336013035
3 x 35	3 x 6	2 x 1.5	27.1	1440	162	5336014035
3 x 50	3 x 10	2 x 1.5	31.1	2030	202	5336015035
3 x 70	3 x 16	2 x 1.5	35.6	2830	250	5336016035
3 x 95	3 x 16	2 x 1.5	38.3	3500	301	5336017035
3 x 120	3 x 25	2 x 1.5	43.8	4550	352	5336018035
3 x 150	3 x 25	2 x 1.5	48.6	5510	404	5336019035
3 x 185	3 x 35	2 x 1.5	51.9	6720	461	5336020035
3 x 240	3 x 50	2 x 1.5	58.6	8960	540	5336021035

*According to DIN-VDE 0298-4

Need more options? Screened, copper wire braided cable types and hybrid cable solutions also available.

LUMINOUS INTENSITY



LUMINOUS INTENSITY TEST

Test for luminosity after loading under light. Perceptibility threshold is the faintest light the human eye can typically detect before adjusting to darkness. After adapting, it can perceive luminance as low as 0.001 lm.



BRILLIANT OUTER SHEATH

HELMACAB™ H-FLEX PWR AFR PUR+LUM provides improved visibility in dark lighting conditions, with longevity and without diminishing properties.