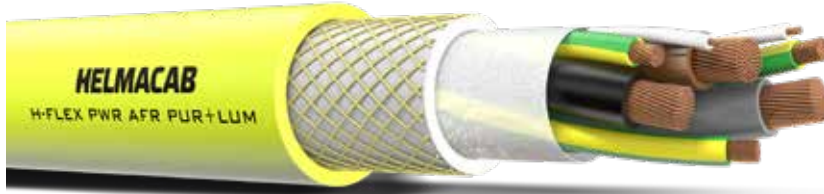


H-FLEX PWR AFR PUR+LUM

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



H-FLEX PWR AFR PUR+LUM 0.6/1 kV (Cu conductor cables)

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	1 Layer	2 Layers	Part number
3 x 25	3 x 6	2 x 1.0	25.8	1150	131	105	80	5336013035
3 x 35	3 x 6	2 x 1.5	27.1	1440	162	130	99	5336014035
3 x 50	3 x 10	2 x 1.5	31.1	2030	202	162	123	5336015035
3 x 70	3 x 16	2 x 1.5	35.6	2830	250	200	153	5336016035
3 x 95	3 x 16	2 x 1.5	38.3	3500	301	241	184	5336017035
3 x 120	3 x 25	2 x 1.5	43.8	4550	352	282	215	5336018035
3 x 150	3 x 25	2 x 1.5	48.6	5510	404	323	246	5336019035
3 x 185	3 x 35	2 x 1.5	51.9	6720	461	369	281	5336020035
3 x 240	3 x 50	2 x 1.5	58.6	8960	540	432	329	5336021035

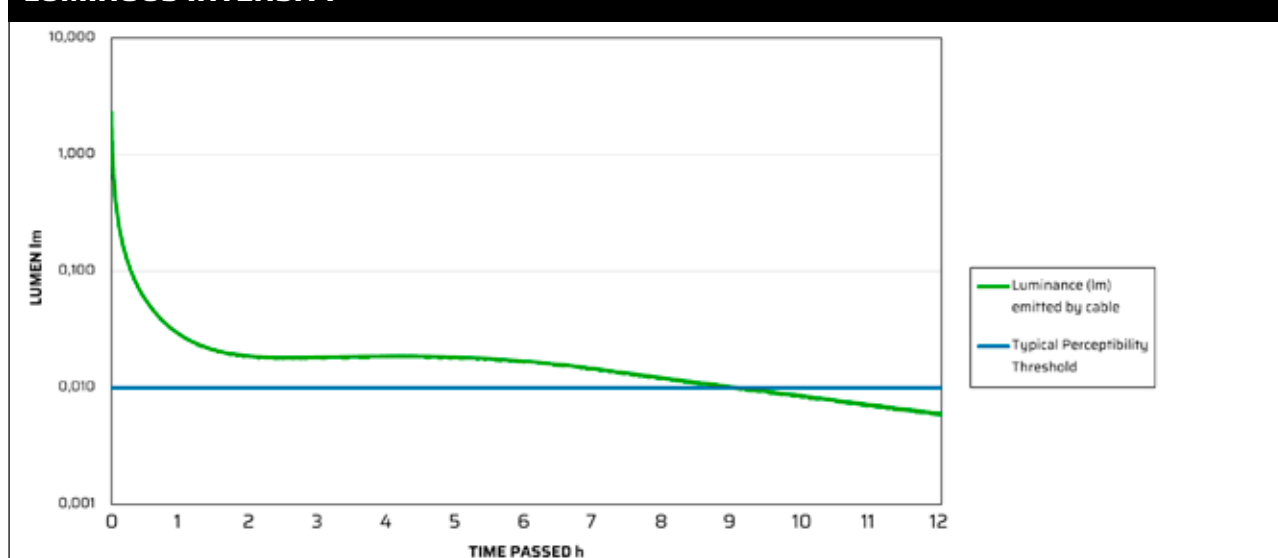
*According to DIN-VDE 0298-4

Screened, copper wire braided cable types and hybrid cable solutions also available.

H-FLEX PWR AFR PUR+LUM 0.6/1 kV (Al conductor cables)

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	1 Layer	2 Layers	Part number
3 x 50	3 x 10	2 x 1.5	31.9	1030	136	109	83	5346115035
3 x 70	3 x 16	2 x 1.5	37.5	1390	174	139	106	5346116035
3 x 95	3 x 16	2 x 1.5	40.5	1690	211	169	129	5346117035
3 x 120	3 x 25	2 x 1.5	45.8	2110	245	196	149	5346118035
3 x 150	3 x 25	2 x 1.5	51.3	2580	283	226	173	5346119035
3 x 185	3 x 35	2 x 1.5	56.2	3100	323	258	197	5346120035
3 x 240	3 x 50	2 x 1.5	62.3	3950	382	306	233	5346121035

*According to IEC 60364-5-52

LUMINOUS INTENSITY

Luminous intensity 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.