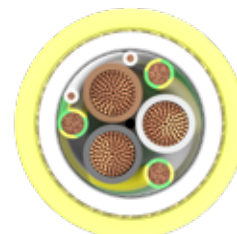
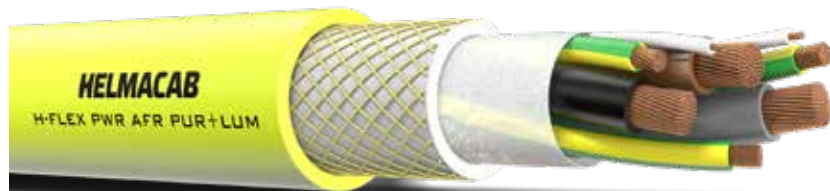


H-FLEX PWR AFR PUR+LUM

0.6/1 kV

Reinforced retroreflective umbilical power cable



• RETROREFLECTIVE • FLAME-RETARDANT • 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	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 reinforcement provides excellent tensile performance and enables tested breaking loads of up to 47 kN.

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.

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

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: $15 \times \varnothing < 25 \text{ mm} < 20 \times \varnothing$
CORE IDENTIFICATION	Brown, Black, Grey, Y/G (PE), pilot wires



MAIN CHARACTERISTICS

LUMINOSITY	0,01 lm up to 9h 0,005 lm > 12h
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

H-FLEX PWR AFR PUR+LUM 0.6/1 KV (CU CONDUCTOR CABLES)

Main conductors (mm²)	PE conductors (mm²)	Pilot conductors (mm²)	Nominal outer Ø (mm)	Weight kg/km	Current carrying capacity*	1 Layer	2 Layers	Min. Breaking load (kN)	Max. Operating tension (kN)	Part number
3 x 25	3 x 6	2 x 1.0	25.8	1150	131	105	80	20	7	5336013035
3 x 35	3 x 6	2 x 1.5	27.1	1440	162	130	99	20	7	5336014035
3 x 50	3 x 10	2 x 1.5	31.1	2030	202	162	123	23	8	5336015035
3 x 70	3 x 16	2 x 1.5	35.6	2830	250	200	153	27	9	5336016035
3 x 95	3 x 16	2 x 1.5	38.3	3500	301	241	184	30	10	5336017035
3 x 120	3 x 25	2 x 1.5	43.8	4550	352	282	215	34	11	5336018035
3 x 150	3 x 25	2 x 1.5	48.6	5510	404	323	246	39	13	5336019035
3 x 185	3 x 35	2 x 1.5	51.9	6720	461	369	281	42	14	5336020035
3 x 240	3 x 50	2 x 1.5	58.6	8960	540	432	329	47	15	5336021035

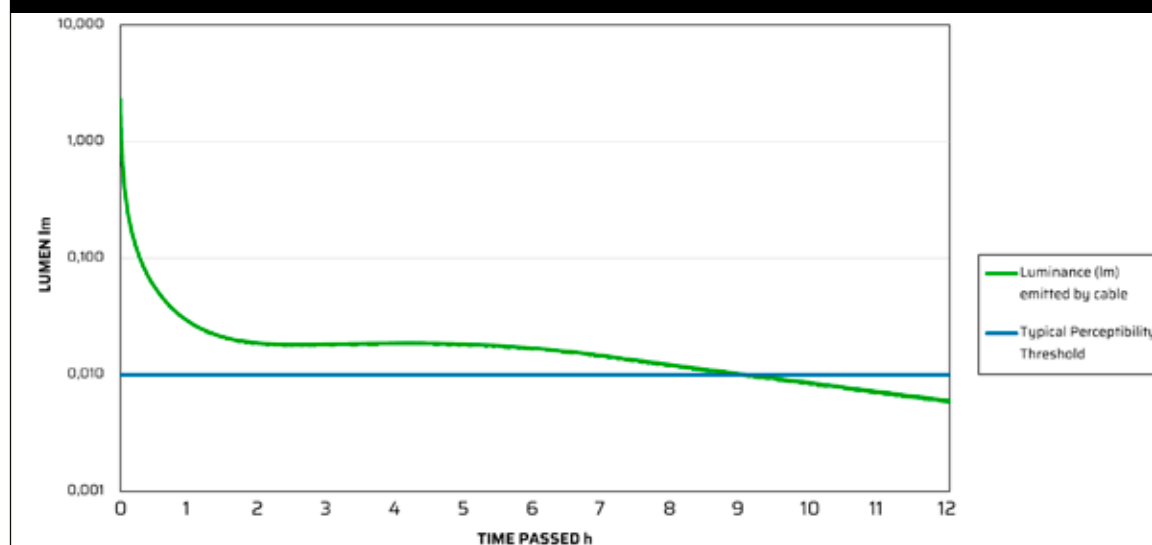
* @30 °C Laid straight according to DIN-VDE 0298-4

H-FLEX PWR AFR PUR+LUM 0.6/1 KV (AL CONDUCTOR CABLES)

Main conductors (mm²)	PE conductors (mm²)	Pilot conductors (mm²)	Nominal outer Ø (mm)	Weight kg/km	Current carrying capacity*	1 Layer	2 Layers	Min. Breaking load (kN)	Max. Operating tension (kN)	Part number
3 x 50	3 x 10	2 x 1.5	31.9	1030	136	109	83	23	8	5346115035
3 x 70	3 x 16	2 x 1.5	37.5	1390	174	139	106	27	9	5346116035
3 x 95	3 x 16	2 x 1.5	40.5	1690	211	169	129	30	10	5346117035
3 x 120	3 x 25	2 x 1.5	45.8	2110	245	196	149	34	11	5346118035
3 x 150	3 x 25	2 x 1.5	51.3	2580	283	226	173	39	13	5346119035
3 x 185	3 x 35	2 x 1.5	56.2	3100	323	258	197	42	14	5346120035
3 x 240	3 x 50	2 x 1.5	62.3	3950	382	306	233	47	15	5346121035

* @30 °C Laid straight according to DIN-VDE 0298-4

LUMINOUS INTENSITY



↑ PROVEN BRILLIANCE

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.