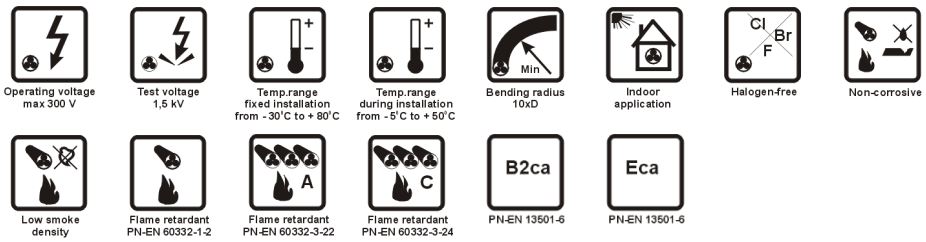
TECHNOFLAME
HTKSHekw



APPLICATIONS

HTKSHekw halogen free cables are intended for interconnections between switching and transmission equipment, for analogue or digital data transmission in industrial electronics and control applications all in objects of sharp fire protection requirements, particularly in fire alarm and fire automatic control systems.

The cables are certified by **Scientific and Research Centre for Fire Protection** - National Research Institute (Centrum Naukowo-Badawcze Ochrony Przeciwpożarowej - PIB) at Józefów.

Halogen free cables are applied in locations where, in case of fire, higher safety for human beings and expensive electronic equipment is required. The cables are flame retardant and their smoke emission is low, emitted fumes are non toxic and non corrosive.

Cable circuits are protected by an overall electrostatic shield against external electric field interferences.

The cables are suitable for fixed indoor installations.

CONSTRUCTION

- bare annealed copper single wire round conductors,
- halogen free compound insulation - colours in accordance with PN-92/T-90321 standard,
- insulated conductors twisted into pairs or quads,
- pairs laid-up into a cable core,
- cable core wrapped in a polyester tape,
- overall electrostatic shield incorporating a plastic laminated metal foil and a tinned copper drain wire,
- red cable sheath made of halogen free compound type HM2 according to EN 50290-2-27 and VDE 0250 214 standard.

CHARACTERISTICS

Cable type			HTKSHekw					
Conductor diameter		mm	0.5	0.6	0.8	1.0	1.4	1.5
DC loop resistance at 20°C, maximum		Ω/km	195.6	135.8	75.0	48.0	24.5	24.0
Mutual capacitance at 1 kHz	maximum	nF/km	200	200	200	200	200	200
	avarage		90	90	90	130	150	150

TECHNOKABEL®
Connecting since 1982

CNBOP-PIB RoHS COMPLIANT CE

Operating voltage Uo/U	150 V
Operating voltage peak value	max. 300 V
Voltage test	1500 V rms
Insulation resistance, minimum	500 MΩ/km
Inductance, approximate	0.7 mH/km
Operating temperature range	
during operation	from - 30 to + 80°C
during installation	from - 5 to + 50°C
Minimum bending radius	10 x cable diameter
Corrosivity of emitted gases per	PN-EN 60754-1, PN-EN 60754-2, IEC 60754-2
pH	>4.3
conductivity	<2.5 µS/mm
Smoke density	PN-EN 61034-2, IEC 61034-2
Light transmittance, minimum	80% for s1a

Cable combustibillity	flame retardant
Combustibillity tests	PN-EN 60332-1-2, IEC 60332-1-2, PN-EN 60332-3-22, IEC 60332-3-22, PN-3N 60332-3-24, IEC 60332-3-24
Referance standards	CNBOP-PIB- KOT-2019/0111-3701 edition 3, WT-TK-4
CPR – class reaction on fire (according to PN-EN 13501-6)	B2ca-s1a,d0,a1; Eca
KDWU declarations are avalible at	technokabel.com.pl

The cable meets requirements of the low voltage direction 2014/35/EU

Product No.	Number of pairs x conductor diameter	Cable outer diameter (appr.)	Class reaction to fire	Copper index	Cable weight (appr.)
	mm	mm		kg/km	kg/km
0533 034	1 x 2 x 0,5	3,3	Eca	5,0	17
0533 008	2 x 2 x 0,5	4,5	Eca	8,7	26
0533 009	3 x 2 x 0,5	4,7	Eca	12,5	32
0533 029	4 x 2 x 0,5	5,1	Eca	16,3	38
0533 020	5 x 2 x 0,5	5,6	B2ca-s1a,d0,a1	20,1	44
0533 037	6 x 2 x 0,5	6,0	Eca	23,8	50
0533 038	7 x 2 x 0,5	6	Eca	27,6	55
0533 039	8 x 2 x 0,5	6,4	Eca	31,4	61
0533 040	10 x 2 x 0,5	7,2	Eca	38,9	74
0533 041	1 x 2 x 0,6	3,5	Eca	6,6	19
0533 021	2 x 2 x 0,6	5,1	B2ca-s1a,d0,a1	12,1	34
0533 022	3 x 2 x 0,6	5,1	B2ca-s1a,d0,a1	17,5	38
0533 023	4 x 2 x 0,6	5,5	B2ca-s1a,d0,a1	22,9	46
0533 025	5 x 2 x 0,6	6,0	B2ca-s1a,d0,a1	28,3	54
0533 024	6 x 2 x 0,6	6,5	B2ca-s1a,d0,a1	33,8	62
0533 030	7 x 2 x 0,6	6,5	Eca	39,2	68
0533 026	8 x 2 x 0,6	6,9	Eca	44,6	77
0533 027	10 x 2 x 0,6	8,0	Eca	55,5	97
0533 028	12 x 2 x 0,6	8,3	Eca	66,4	111
0533 002	1 x 2 x 0,8	4,2	B2ca-s1a,d0,a1	10,9	27

Product No.	Number of pairs x conductor diameter	Cable outer diameter (appr.)	Class reaction to fire	Copper index	Cable weight (appr.)
	mm	mm		kg/km	kg/km
0533 003	1 x 4 x 0,8	5,1	B2ca-s1a,d0,a1	20,5	45
0533 010	2 x 2 x 0,8	6,1	B2ca-s1a,d0,a1	20,5	46
0533 004	3 x 2 x 0,8	6,4	B2ca-s1a,d0,a1	30,2	59
0533 006	4 x 2 x 0,8	7,0	B2ca-s1a,d0,a1	39,8	74
0533 005	5 x 2 x 0,8	7,9	B2ca-s1a,d0,a1	49,5	92
0533 017	6 x 2 x 0,8	8,6	B2ca-s1a,d0,a1	59,1	107
0533 019	7 x 2 x 0,8	8,6	B2ca-s1a,d0,a1	68,8	119
0533 013	8 x 2 x 0,8	9,1	B2ca-s1a,d0,a1	78,4	133
0533 012	10 x 2 x 0,8	10,3	B2ca-s1a,d0,a1	97,7	162
0533 042	12 x 2 x 0,8	10,4	Eca	107,4	174
0533 018	14 x 2 x 0,8	11,8	Eca	136,3	220
0533 035	20 x 2 x 0,8	17,4	Eca	194,2	441
0533 001	1 x 2 x 1,0	5,1	B2ca-s1a,d0,a1	16,3	40
0533 031	1 x 4 x 1,0	5,2	B2ca-s1a,d0,a1	31,4	53
0533 007	2 x 2 x 1,0	6,7	B2ca-s1a,d0,a1	31,4	60
0533 043	3 x 2 x 1,0	7,1	B2ca-s1a,d0,a1	46,4	78
0533 014	4 x 2 x 1,0	8,0	B2ca-s1a,d0,a1	61,5	102
0533 044	5 x 2 x 1,0	8,8	B2ca-s1a,d0,a1	76,6	123
0533 045	6 x 2 x 1,0	9,6	B2ca-s1a,d0,a1	91,7	143
0533 046	7 x 2 x 1,0	9,6	B2ca-s1a,d0,a1	106,8	161

Product No.	Number of pairs x conductor diameter	Cable outer diameter (appr.)	Class reaction to fire	Copper index	Cable weight (appr.)
	mm	mm		kg/km	kg/km
0533 047	8 x 2 x 1,0	10,2	B2ca-s1a,d0,a1	121,8	181
0533 015	10 x 2 x 1,0	11,8	B2ca-s1a,d0,a1	152,0	227
0533 048	12 x 2 x 1,0	12,3	B2ca-s1a,d0,a1	182,2	263
0533 049	14 x 2 x 1,0	13,1	Eca	212,3	302
0533 011	1 x 2 x 1,4	5,3	B2ca-s1a,d0,a1	30,8	50
0533 032	1 x 4 x 1,4	6,1	B2ca-s1a,d0,a1	60,3	83
0533 016	1 x 2 x 1,5	5,9	B2ca-s1a,d0,a1	35,1	57
0533 051	2 x 2 x 1,5	9,1	B2ca-s1a,d0,a1	69,1	110
0533 052	3 x 2 x 1,5	9,7	B2ca-s1a,d0,a1	103,0	149
0533 050	4 x 2 x 1,5	10,9	B2ca-s1a,d0,a1	136,9	194

Product No.	Number of pairs x conductor diameter	Cable outer diameter (appr.)	Class reaction to fire	Copper index	Cable weight (appr.)
	mm	mm		kg/km	kg/km
0533 053	5 x 2 x 1,5	11,9	B2ca-s1a,d0,a1	170,9	235
0533 054	6 x 2 x 1,5	13,0	B2ca-s1a,d0,a1	204,8	276
0533 055	7 x 2 x 1,5	13,0	B2ca-s1a,d0,a1	238,7	312
0533 056	8 x 2 x 1,5	14,1	B2ca-s1a,d0,a1	272,6	359
0533 057	10 x 2 x 1,5	16,1	B2ca-s1a,d0,a1	340,5	442
0533 058	12 x 2 x 1,5	16,8	B2ca-s1a,d0,a1	408,4	517
0533 059	14 x 2 x 1,5	18,2	B2ca-s1a,d0,a1	476,2	604
0533 060	20 x 2 x 1,5	21,3	B2ca-s1a,d0,a1	679,8	837
0533 061	25 x 2 x 1,5	24,0	B2ca-s1a,d0,a1	849,4	1053

TECHNOKABEL S.A. reserves the right to change specifications without prior notice.