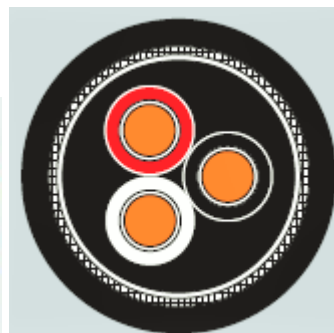
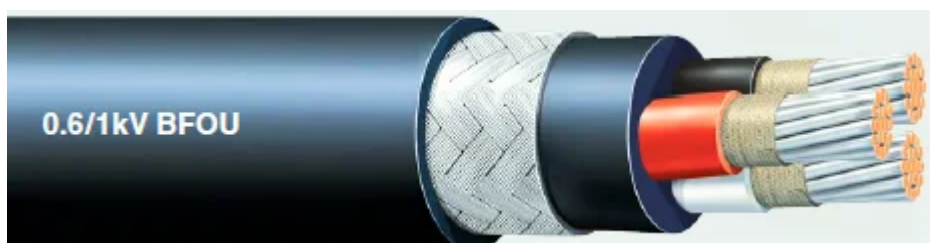




NNOVCABLE Power, Control and Lighting 0.6/1(1.2)kV BFOU, BFBU, BFCU – P5 and P5/P12 – SHF2 Resistance – IEC 60331



- 1) Conductor formed by tinned electrolytic copper wires, soft temper, class 5 stranding, in accordance with IEC 60228. *1
 - 2-) Application of Mica ceramics and insulation of conductors in special halogen-free compound LSOH – IEC 60331 (Code B)
 - 3) Insulated conductors cabled together, non-hygroscopic and flame retardant filaments can be used in the construction of the conductor and tapes can be applied to the conductors.
 - 4) Inner cover in halogen-free polyolefin compound LSOH – (Code F)
 - 5) Frame: *2
- Mesh of tinned copper wires (Code 0)



– Bronze wire mesh (Code B)

– Galvanized steel wire mesh (Code C)

6) Final cover in halogen-free polyolefin compound LSOH (SHF2), black. (U Code)

Identification

A-) Number of Conductors (Without Earth G conductor)

1C: Single conductor - Black or White

2C: Two conductors - White, Black

3C: Three conductor - White, Black, Red

4C: Four conductors - White, Black, Red, Blue

5C or more: Five conductors or more - Black or White conductors numbered sequentially.

B-) Number of conductors (with G earth conductor)

2C +E: Three conductors - White, Black, Green

3C +E: Four conductors - White, Black, Red, Green

4C +E: Five conductors - White, Black, Red, Blue, Green



6C or more: Six or more conductors - Black or white sequentially numbered conductors + green lane

Engraving on the outer cover (example): “ano” Innovcable 01 BFOU 0.6/1KV P5/P12 3 x 2.5 mm2 – FLAME IEC 60331-1 or IEC 60331-2 IEC 60331-21 IEC 60332-3-22

Applicable Specifications

Design: NEK TS 606 and IEC 60092-353

Conductor: IEC 60228 class 2 or 5

Insulation: IEC 60092-360

Coverage: IEC 60092-360

Fire Resistance: IEC 60331-1, -2, -21

Flame Retardant: IEC 60332-1 and IEC 60332-3 Category A

Halogen content: IEC 60754-1, 0.5%.

Cold / impact bending : CSA 22.2 No.03 (-40°C/-35°C)

NEK-606

Luminosity transmission in smoke: IEC 61034, 60% >.

Applications



Naval cables for fixed installations for power, control and lighting in EX environments (Zone 0, 1 and 2) and safe areas (SHF2). Meets resistance requirements as per NEK TS 606 (SHF2). Cable with IEC 60331 Fire Resistance.

Maximum Conductor Temperature

90°C

Notes

1) Tinned Copper Conductor can be manufactured in class 2.

2) Tape can be applied before/after the frame.

3) Operating voltage : 0.6/1(1.2)kV

**Innovcable reserves the right to change this catalog without prior notice.



Códigos (NOMENCLATURAS)

Materiais (Nomenclaturas)	Isolamento	Capa Intermediária	Armação / Blindagem	Capa Externa
Fire Resistant (IEC 60331) Mica + Isolamento (LSZH) - Livre de Halogênio	B			
EPR / Especial HEPR	R			
XLPE	T			
Composto Termoplástico (Livre de Halogênio)	I			
Composto Elastomérico Livre de Halogênio ou EVA	U			
Capa Intermediária LSZH (Livre de Halogênio)		F		
Anteparo (Enfitamento PE or PP)		Y		
Não armado			X	
Malha de fios cobre nu ou estanhada			O	
Malha de fios de bronze			B	
Malha de fios de aço galvanizado			C	
Composto (Livre de Halogênio) SHF1		I		I
Composto (Livre de Halogênio) SHF2				U
Composto SHF Resistente a "Mud" - Livre de halogênio				U
Composto Resistente a "Mud" - Livre de halogênio				B

Nomenclatura acional

(i)	Blindagem fita de poliéster aluminizada individual
(c)	Blindagem fita de poliéster coletiva
(i & c)	Blindagem fita de poliéster aluminizada individual e coletiva



Código cabos tipo NEK 606

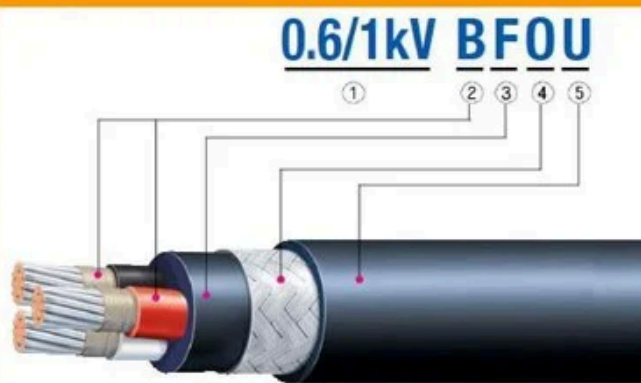
Nomenclatura	Código H-F	Código H-F-M-R
0.6/1kV RFOU	P1	P1/P8
0.6/1kV BFOU	P5	P5/P12
0.6/1kV RU	P18	-
0.6/1kV BU	P17	-
0.6/1kV UX	P15	P2/P9
250V RFOU(i)	S1	S1/S5
250V RFOU(c)	S2	S2/S6
250V BFOU(i)	S3	S3/S7
250V BFOU(c)	S4	S4/S8

Nota:

H-F - Cabos Livres de Halogênio

H-F-M-R - Cabos Livre de Halogênio e "Mud" Resistente

Exemplo:



- ① Voltagem
- ② Camada "Fire Resisting" + isolamento (EPR)
- ③ Capa intermediária LSZH
- ④ Armação (Cobre)
- ⑤ Capa Externa (SHF2 ou SHF "mud")



CABLE TYPE : 0.6/1kV BFOU, 0.6/1kV BFBU

No. of Cores	Conductor			Thickness of Insulation	Cable Weight	Conductor Resistance (at 20°C) (Max.)	Insulation Resistance (at 20°C) (Min.)	Current Carrying Capacity (Max.) (at 40°C)
	Nominal Area	Strand	Dia.					
No.	mm²	No./mm	mm	mm	kg/km	Ω/km	M.Ω/km	A
1	1.5	7/0.53	1.59	1.0	190	12.2	1,300	21
	2.5	7/0.67	2.01	1.0	210	7.56	1,100	30
	4	7/0.85	2.55	1.0	250	4.70	920	40
	6	7/1.04	3.12	1.0	280	3.110	790	51
	10	7/1.35	4.05	1.0	340	1.840	640	71
	16	7/1.70	5.10	1.0	430	1.160	530	95
	25	7/2.14	6.42	1.2	580	0.734	510	125
	35	7/2.52	7.56	1.2	710	0.529	440	155
	50	19/1.78	8.90	1.4	890	0.391	440	190
	70	19/2.14	10.70	1.4	1,140	0.270	370	240
	95	19/2.52	12.60	1.6	1,480	0.195	360	290
	120	37/2.03	14.21	1.6	1,770	0.154	320	340
	150	37/2.25	15.75	1.8	2,120	0.126	330	385
	185	37/2.52	17.64	2.0	2,570	0.100	330	440
	240	61/2.25	20.25	2.2	3,280	0.0762	310	520
	300	61/2.52	22.68	2.4	4,090	0.0607	310	590
2	1.5	7/0.53	1.59	1.0	370	12.2	1,300	18
	2.5	7/0.67	2.01	1.0	420	7.56	1,100	25
	4	7/0.85	2.55	1.0	500	4.70	920	34
	6	7/1.04	3.12	1.0	580	3.110	790	43
	10	7/1.35	4.05	1.0	760	1.840	640	60
	16	7/1.70	5.10	1.0	970	1.160	530	81
	25	7/2.14	6.42	1.2	1,340	0.734	510	105
	35	7/2.52	7.56	1.2	1,470	0.529	440	135
	50	19/1.78	8.90	1.4	2,150	0.391	440	165
	70	19/2.14	10.70	1.4	2,930	0.270	370	200
	95	19/2.52	12.60	1.6	3,830	0.195	360	249
	120	37/2.03	14.21	1.6	4,640	0.154	320	286
	150	37/2.25	15.75	1.8	5,560	0.126	330	331
	185	37/2.52	17.64	2.0	6,750	0.100	330	377
	240	61/2.25	20.25	2.2	8,660	0.0762	310	444
	300	61/2.52	22.68	2.4	10,550	0.0607	310	511
2C+E	1.5	7/0.53	1.59	1.0	410	12.2	1,300	15
2C+E	2.5	7/0.67	2.01	1.0	470	7.56	1,110	21
2C+E	4	7/0.85	2.55	1.0	570	4.70	930	29
2C+E	6	7/1.04	3.12	1.0	680	3.110	790	36
2C+E	10	7/1.35	4.05	1.0	900	1.840	640	50
2C+E	16	7/1.70	5.10	1.0	1,160	1.160	530	67
2C	25	7/2.14	6.42	1.2	1,550	0.734	510	89
Earth	16	7/1.70	5.10	1.0		1.160	530	
2C	35	7/2.52	7.56	1.2	1,970	0.529	440	105
Earth	25	7/2.14	6.42	1.2		0.734	510	
2C	50	19/1.78	8.90	1.4	2,490	0.391	440	135
Earth	25	7/2.14	6.42	1.2		0.734	510	
2C	70	19/2.14	10.70	1.4	3,360	0.270	380	170
Earth	35	7/2.52	7.56	1.2		0.529	440	
2C	95	19/2.52	12.60	1.6	4,400	0.195	370	205
Earth	50	19/1.78	8.90	1.4		0.391	440	
2C	120	37/2.03	14.21	1.6	5,380	0.154	330	240
Earth	70	19/2.14	10.70	1.4		0.270	380	
2C	150	37/2.25	15.75	1.8	6,560	0.126	330	270
Earth	95	19/2.52	12.60	1.6		0.195	370	
2C	185	37/2.52	17.64	2.0	7,870	0.100	330	305
Earth	95	19/2.52	12.60	1.6		0.195	370	
2C	240	61/2.25	20.25	2.2	9,940	0.076	320	365
Earth	120	37/2.03	14.21	1.6		0.154	330	



CABLE TYPE : 0.6/1kV BFOU, 0.6/1kV BFBU, 0.6/1kV BFCU

No. of Cores	Nominal Area	Strand	Dia.	Thickness of Insulation	Cable Weight	Conductor Resistance (at 20°C) (Max.)	Insulation Resistance (at 20°C) (Min.)	Current Carrying Capacity (Max.) (at 40°C)
No.	mm²	No./mm	mm	mm	kg/km	Ω/km	MΩ/km	A
3	1.5	7/0.53	1.59	1.0	410	12.2	1,300	15
	2.5	7/0.67	2.01	1.0	470	7.56	1,100	21
	4	7/0.85	2.55	1.0	570	4.70	920	29
	6	7/1.04	3.12	1.0	680	3.110	770	36
	10	7/1.35	4.05	1.0	900	1.840	640	50
	16	7/1.70	5.10	1.0	1,160	1.160	530	67
	25	7/2.14	6.42	1.2	1,440	0.734	510	89
	35	7/2.52	7.56	1.2	2,080	0.529	440	105
	50	19/1.78	8.90	1.4	2,710	0.391	440	135
	70	19/2.14	10.70	1.4	3,440	0.270	370	170
	95	19/2.52	12.60	1.6	4,870	0.195	360	205
	120	37/2.03	14.21	1.6	5,870	0.154	320	240
	150	37/2.25	15.75	1.8	7,080	0.126	330	270
	185	37/2.52	17.64	2.0	8,700	0.100	330	305
	240	61/2.25	20.25	2.2	11,040	0.0762	310	365
	300	61/2.52	22.68	2.4	13,650	0.0607	310	415
3C+E	16	7/1.70	5.10	1.0	1,440	1.160	530	67
3C	25	7/2.14	6.42	1.2	1,910	0.734	510	89
Earth	16	7/1.70	5.10	1.0	1,160	1.160	530	67
3C	35	7/2.52	7.56	1.2	2,500	0.529	440	105
Earth	25	7/2.14	6.42	1.2	1,910	0.734	510	89
3C	50	19/1.78	8.90	1.4	3,150	0.391	440	135
Earth	25	7/2.14	6.42	1.2	1,910	0.734	510	89
3C	70	19/2.14	10.70	1.4	4,140	0.270	380	170
Earth	35	7/2.52	7.56	1.2	2,500	0.529	440	105
3C	95	19/2.52	12.60	1.6	5,510	0.195	370	205
Earth	50	19/1.78	8.90	1.4	3,150	0.391	440	135
3C	120	37/2.03	14.21	1.6	6,750	0.154	330	240
Earth	70	19/2.14	10.70	1.4	4,140	0.270	380	170
3C	150	37/2.25	15.75	1.8	8,350	0.126	330	270
Earth	95	19/2.52	12.60	1.6	5,510	0.195	370	205
3C	185	37/2.52	17.64	2.0	9,860	0.100	330	305
Earth	95	19/2.52	12.60	1.6	5,510	0.195	370	205
3C	240	61/2.25	20.25	2.2	12,450	0.076	320	365
Earth	120	37/2.03	14.21	1.6	6,750	0.154	330	240
4	1.5	7/0.53	1.59	1.0	480	12.2	1,300	15
	2.5	7/0.67	2.01	1.0	550	7.56	1,100	21
	4	7/0.85	2.55	1.0	680	4.70	920	29
	6	7/1.04	3.12	1.0	800	3.110	770	36
	10	7/1.35	4.05	1.0	1,080	1.840	640	50
	16	7/1.70	5.10	1.0	1,420	1.160	530	67
	25	7/2.14	6.42	1.2	2,030	0.734	510	89
	35	7/2.52	7.56	1.2	2,610	0.529	440	105
	50	19/1.78	8.90	1.4	3,460	0.391	440	135
	70	19/2.14	10.70	1.4	4,590	0.270	370	170
	95	19/2.52	12.60	1.6	6,120	0.195	360	205
	120	37/2.03	14.21	1.6	7,400	0.154	320	240
	150	37/2.25	15.75	1.8	9,010	0.126	330	270
	185	37/2.52	17.64	2.0	11,000	0.100	330	305
	240	61/2.25	20.25	2.2	14,150	0.0762	310	365
	300	61/2.52	22.68	2.4	17,380	0.0607	310	415



CABLE TYPE : 0.6/1kV BFOU, 0.6/1kV BFBU, 0.6/1kV BFCU

No. of Cores	Conductor			Thickness of Insulation	Cable Weight	Conductor Resistance (at 20°C) [Max.]	Insulation Resistance (at 20°C) [Min.]	Current Carrying Capacity [Max.] (at 40°C)
	Nominal Area	Strand	Dia.					
No.	mm²	No./mm	mm	mm	kg/km	Ω/km	MΩ/km	A
5	1.0	7/0.43	1.29	1.0	500	18.2	1,490	10
7				1.0	580			9
9				1.0	740			8
12				1.0	880			7
14				1.0	980			7
16				1.0	1,070			7
19				1.0	1,180			6
24				1.0	1,540			6
27				1.0	1,630			5
30				1.0	1,780			5
37	1.0	2,140	5					
44	1.0	2,630	5					
5	1.5	7/0.53	1.59	1.0	550	12.2	1,300	12
7				1.0	650			11
9				1.0	830			10
12				1.0	1,030			9
14				1.0	1,120			9
16				1.0	1,240			8
19				1.0	1,370			8
24				1.0	1,840			7
27				1.0	1,950			7
30				1.0	2,170			7
37	1.0	2,510	6					
44	1.0	3,090	6					
5	2.5	7/0.67	2.01	1.0	650	7.56	1,100	18
7				1.0	760			16
9				1.0	1,000			14
12				1.0	1,230			13
14				1.0	1,350			12
16				1.0	1,510			12
19				1.0	1,670			11
24				1.0	2,330			10
27				1.0	2,470			10
30				1.0	2,640			10
37	1.0	3,070	9					
44	1.0	3,830	8					
5	4	7/0.85	2.55	1.0	800	4.70	920	22
7				1.0	960			20
9				1.0	1,240			18
12				1.0	1,560			17
14				1.0	1,730			16
16				1.0	1,930			15
19				1.0	2,200			14
24				1.0	3,000			13
27				1.0	3,170			13
30				1.0	3,430			12
37	1.0	4,060	11					
44	1.0	4,990	11					