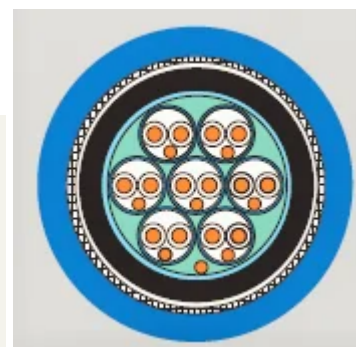
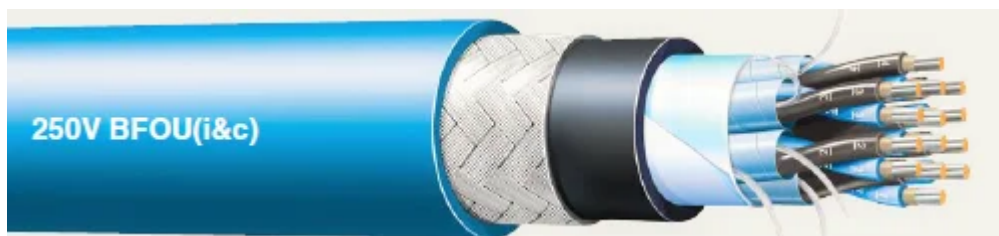




INNOVCABLE Instrumentation and Communication 150/250(300)V BFOU(i&c), BFBU(i&c), BFCU(i&c) – SHF2 Resistance – IEC 60331



- 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) Twisted conductors forming Pairs, Triples or Quads.
- 4) Individual shielding in aluminized polyester tape + drain wire (Code (i))
- 5) Pairs or Trios brought together and identified by sequential numbers, non-hygroscopic flame retardant filaments can be used in the construction of the conductor and tapes can be applied to the conductors.
- 6) Collective shielding in aluminized polyester tape + drain wire (Code (c))
- 7) Inner cover in halogen-free polyolefin compound LSOH – (Code F)
- 8) Frame: *2
 - Mesh of tinned copper wires (Code 0)
 - Bronze wire mesh (Code B)
 - Galvanized steel wire mesh (Code C)
- 9) Final cover in halogen-free polyolefin compound LSOH (SHF2). (U Code)
- 10) External cover in gray (Not Intrinsically Safe) or Blue (Intrinsically Safe – IS)

Identification

Conductors in the colors:

Pair: Black - Light Blue

Trio: Black - Light Blue - Brown

Quad: Black - Light Blue - Brown - Gray



Identification on outer jacket (example): "year" INNOVCABLE 01 BFOU(i&c) 250V S4/S8 4 PAIR
0.75 mm² FLEX - FLAME IEC 60092-376 IEC 60331-1 or IEC 60331-2 IEC 60331-21 IEC 60332-3-22

Applicable Specifications

Design: NEK TS 606 and IEC 60092-376

Conductor: IEC 60228 class 2 or 5

Insulation: IEC 60092-360

Coverage: IEC 60092-360

Flame Resistant: IEC 60331-1, -2, -21

Flame Retardant: IEC 60332-1-2 and IEC 60332-3-22

Halogen content: IEC 60754-1.2 0.5%.

Luminosity transmission in smoke: IEC 61034-1.2, 60% > 60

Bending Cold / impact : CSA 22.2 No.0.3-01 (-40°C/-35°C) and IEC 60092-352 Annex E
NEK-606

Applications

Instrumentation, communication, control and alarm cable, for fixed installations in Ex areas (Zone 0, 1 and 2) and areas of security, emergency and critical systems where fire resistance is required IEC 60331. Meets NEK resistance requirement TS 606: 2009.

Maximum Conductor Temperature

90°C

Notes

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

2) Separating tape may be applied before/after the frame.

3) Operating voltage: 150/250(300)V

**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

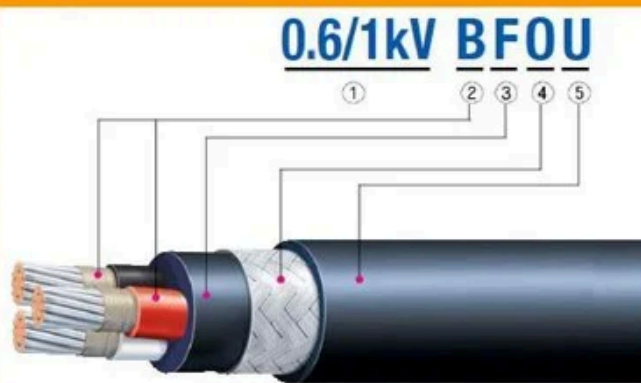
Nomenclatura	Código H-F	Código H-F-M-R
0.6/1kV RFOU	P1	P1/P8
0.6/1kV BFOU	P5	P5/P12
0.6/1kV RU	P18	-
0.6/1kV BU	P17	-
0.6/1kV UX	P15	P2/P9
250V RFOU(i)	S1	S1/S5
250V RFOU(c)	S2	S2/S6
250V BFOU(i)	S3	S3/S7
250V BFOU(c)	S4	S4/S8

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 : 250V BFOU(i&c), 250V BFBU(i&c), 250V BFCU(i&c)

No. of Pairs	Conductor			Thickness of Insulation	Cable Weight Approx. kg / km	Conductor Resistance [at 20°C] (Max.) Ω /km	Insulation Resistance [at 20°C] (Min.) M Ω /km
	Nominal Area	Strand	Dia. (ca.)				
No.	SGMM	No. / mm	mm	mm	kg / km		
2P	0.75	7 / 0.37	1.11	0.6	440	24.8	1,170
3P				0.6	500		
4P				0.6	570		
7P				0.6	780		
8P				0.6	860		
10P				0.6	1,010		
12P				0.6	1,130		
14P				0.6	1,230		
16P				0.6	1,380		
19P				0.6	1,530		
24P				0.6	2,000		
32P				0.6	2,490		
2P	1.0	7 / 0.43	1.29	0.6	480	18.2	1,050
3P				0.6	550		
4P				0.6	630		
7P				0.6	880		
8P				0.6	970		
10P				0.6	1,150		
12P				0.6	1,280		
14P				0.6	1,420		
16P				0.6	1,570		
19P				0.6	1,810		
24P				0.6	2,300		
32P				0.6	2,880		
2P	1.5	7 / 0.53	1.59	0.7	560	12.2	1,010
3P				0.7	660		
4P				0.7	760		
7P				0.7	1,070		
8P				0.7	1,190		
10P				0.7	1,420		
12P				0.7	1,580		
14P				0.7	1,800		
16P				0.7	2,100		
19P				0.7	2,360		
24P				0.7	2,880		
32P				0.7	3,690		
2P	2.5	7 / 0.67	2.01	0.7	650	7.56	840
3P				0.7	780		
4P				0.7	900		
7P				0.7	1,310		
8P				0.7	1,460		
10P				0.7	1,790		
12P				0.7	2,020		
14P				0.7	2,330		
16P				0.7	2,610		
19P				0.7	2,950		
24P				0.7	3,670		
32P				0.7	4,640		



CABLE TYPE : 250V BFOU(i&c), 250V BFBU(i&c), 250V BFCU(i&c)

No. of Triads	Nominal Area	Conductor Strand	Dia. (ca.)	Thickness of Insulation	Cable Weight Approx.	Conductor Resistance (at 20°C) (Max.)	Insulation Resistance (at 20°C) (Min.)
No.	SGMM	No./mm	mm	mm	kg/km	Ω/km	MΩ/km
2T	0.75	7/0.37	1.11	0.6	500	24.8	1,170
3T				0.6	590		
4T				0.6	680		
7T				0.6	980		
8T				0.6	1,090		
10T				0.6	1,300		
12T				0.6	1,450		
14T				0.6	1,650		
16T				0.6	1,920		
19T				0.6	2,180		
24T				0.6	2,620		
32T				0.6	3,350		
2T	1.0	7/0.43	1.29	0.6	550	18.2	1,050
3T				0.6	650		
4T				0.6	770		
7T				0.6	1,100		
8T				0.6	1,220		
10T				0.6	1,460		
12T				0.6	1,700		
14T				0.6	1,980		
16T				0.6	2,200		
19T				0.6	2,510		
24T				0.6	3,050		
32T				0.6	3,860		
2T	1.5	7/0.53	1.59	0.7	650	12.2	1,010
3T				0.7	780		
4T				0.7	940		
7T				0.7	1,380		
8T				0.7	1,520		
10T				0.7	1,980		
12T				0.7	2,250		
14T				0.7	2,500		
16T				0.7	2,770		
19T				0.7	3,230		
24T				0.7	3,890		
32T				0.7	5,030		
2T	2.5	7/0.67	2.01	0.7	770	7.56	840
3T				0.7	930		
4T				0.7	1,120		
7T				0.7	1,740		
8T				0.7	1,950		
10T				0.7	2,440		
12T				0.7	2,780		
14T				0.7	3,110		
16T				0.7	3,530		
19T				0.7	4,050		
24T				0.7	5,000		
32T				0.7	6,390		