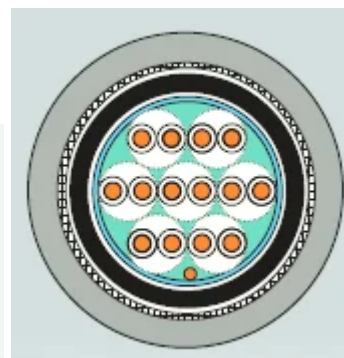




INNOVCABLE Instrumentation and Communication 150/250(300)V BFOU(i), BFBU(i), BFCU(i) – S3 and S3/S7 – SHF2 Resistance – IEC 60331



- 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) Inner cover in halogen-free polyolefin compound LSOH – (Code F)



7) Frame: *2

– Mesh of tinned copper wires (Code 0)

– Bronze wire mesh (Code B)

– Galvanized steel wire mesh (Code C)

8) Final covering in halogen-free polyolefin compound LSOH (SHF2). (U Code)

9) 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(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), 250V BFBU(i), 250V BFCU(i)

No. of Pairs	Conductor			Thickness of Insulation	Cable Weight Approx.	Conductor Resistance (at 20°C) (Max.)	Insulation Resistance (at 20°C) (Min.)
	Nominal Area	Strand	Dia. (ca.)				
No.	SGMM	No. /mm	mm	mm	kg / km	Ω /km	M. Ω /km
1P	0.75	7 / 0.37	1.11	0.6	260	24.8	1,170
2P				0.6	420		
3P				0.6	480		
4P				0.6	540		
7P				0.6	760		
8P				0.6	830		
1P				0.6	990		
12P				0.6	1,100		
14P				0.6	1,200		
16P				0.6	1,350		
19P				0.6	1,500		
24P				0.6	1,970		
32P				0.6	2,440		
1P	1.0	7 / 0.43	1.29	0.6	280	18.2	1,050
2P				0.6	440		
3P				0.6	530		
4P				0.6	610		
7P				0.6	850		
8P				0.6	950		
10P				0.6	1,120		
12P				0.6	1,250		
14P				0.6	1,370		
16P				0.6	1,540		
19P				0.6	1,770		
24P				0.6	2,260		
32P				0.6	2,820		
1P	1.5	7 / 0.53	1.59	0.7	320	12.2	1,010
2P				0.7	540		
3P				0.7	630		
4P				0.7	740		
7P				0.7	1,040		
8P				0.7	1,160		
10P				0.7	1,380		
12P				0.7	1,540		
14P				0.7	1,760		
16P				0.7	2,060		
19P				0.7	2,330		
24P				0.7	2,820		
32P				0.7	3,640		
1P	2.5	7 / 0.67	2.01	0.7	370	7.56	840
2P				0.7	620		
3P				0.7	750		
4P				0.7	870		
7P				0.7	1,280		
8P				0.7	1,420		
10P				0.7	1,750		
12P				0.7	1,980		
14P				0.7	2,290		
16P				0.7	2,560		
19P				0.7	2,910		
24P				0.7	3,620		
32P				0.7	4,590		



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

No. of Triads	Conductor			Thickness of Insulation	Cable Weight Approx.	Conductor Resistance (at 20°C) (Max.)	Insulation Resistance (at 20°C) (Min.)
	Nominal Area	Strand	Dia. (ca.)				
No.	SGMM	No./mm	mm	mm	kg / km	Ω/km	M Ω/km
1T	0.75	7/0.37	1.11	0.6	290	24.8	1,170
2T				0.6	480		
3T				0.6	570		
4T				0.6	660		
7T				0.6	960		
8T				0.6	1,060		
10T				0.6	1,270		
12T				0.6	1,420		
14T				0.6	1,620		
16T				0.6	1,890		
19T				0.6	2,150		
24T				0.6	2,560		
32T				0.6	3,310		
1T	1.0	7/0.43	1.29	0.6	310	18.2	1,050
2T				0.6	530		
3T				0.6	620		
4T				0.6	740		
7T				0.6	1,070		
8T				0.6	1,190		
10T				0.6	1,430		
12T				0.6	1,670		
14T				0.6	1,850		
16T				0.6	2,160		
19T				0.6	2,460		
24T				0.6	3,000		
32T				0.6	3,810		
1T	1.5	7/0.53	1.59	0.7	360	12.2	1,010
2T				0.7	630		
3T				0.7	760		
4T				0.7	910		
7T				0.7	1,350		
8T				0.7	1,490		
10T				0.7	1,950		
12T				0.7	2,210		
14T				0.7	2,460		
16T				0.7	2,710		
19T				0.7	3,180		
24T				0.7	3,840		
32T				0.7	4,970		
1T	2.5	7/0.67	2.01	0.7	420	7.56	840
2T				0.7	750		
3T				0.7	900		
4T				0.7	1,090		
7T				0.7	1,670		
8T				0.7	1,890		
10T				0.7	2,400		
12T				0.7	2,740		
14T				0.7	3,060		
16T				0.7	3,480		
19T				0.7	3,990		
24T				0.7	4,920		
32T				0.7	6,300		