



INNOVCABLE Instrumentation and Communication 150/250(300)V BU(c) – S14 – 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) Pairs or Trios gathered 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.
- 5) Collective shielding in aluminized polyester tape + drain wire (Code (c))
- 6) Final cover in halogen-free polyolefin compound LSOH (SHF2). (U Code)
- 7) Outer 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 BU(c) 250V S14 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 2) and areas of security, emergency and critical systems where fire resistance is required IEC 60331. Meets the resistance requirement NEK TS 606: 2009

Maximum Conductor Temperature

90°C

Notes

1) Tinned copper conductor can be manufactured in class 2.

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

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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")



Range and dimensions

Number of elements	No of cores in element	Cross section core, mm ²	Conductor Diameter, mm	Insulation Thickness, mm	Thickness Outer Sheath, mm	Weight of Cable Approx. (Kg/Km)	Copper content Approx. (kg/km)
2	2	0.75	1.1	0.6	1.1	150	30
4	2	0.75	1.1	0.6	1.2	230	55
8	2	0.75	1.1	0.6	1.4	420	107
12	2	0.75	1.1	0.6	1.5	570	158
12	2	0.75	1.1	0.6	1.5	570	158
16	2	0.75	1.1	0.6	1.6	720	209
19	2	0.75	1.1	0.6	1.6	820	247
24	2	0.75	1.1	0.6	1.8	1040	311
2	3	0.75	1.1	0.6	1.2	200	43
4	3	0.75	1.1	0.6	1.3	310	81
8	3	0.75	1.1	0.6	1.5	590	158
12	3	0.75	1.1	0.6	1.6	780	235
16	3	0.75	1.1	0.6	1.7	1000	312
24	3	0.75	1.1	0.6	1.9	1430	466
2	2	1.5	1.6	0.7	1.2	225	62
4	2	1.5	1.6	0.7	1.3	360	118
8	2	1.5	1.6	0.7	1.5	660	229
12	2	1.5	1.6	0.7	1.7	940	341
16	2	1.5	1.6	0.7	1.8	1200	452
24	2	1.5	1.6	0.7	2.1	1770	675
2	3	1.5	1.6	0.7	1.3	310	90
4	3	1.5	1.6	0.7	1.4	500	174
8	3	1.5	1.6	0.7	1.6	930	342
12	3	1.5	1.6	0.7	1.8	1300	509
16	3	1.5	1.6	0.7	1.9	1670	677
24	3	1.5	1.6	0.7	2.2	2470	1012
2	2	2.5	2.0	0.7	1.3	295	96