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Evolucable Industria de Cabos Especiais
Av. Minasa, 25 - Galpão B1 - Condomínio Industrial
Business Park -Sumaré/SP - Cep 13.180-400
Sumaré/SP (Fábrica): +55 19 3090-3350
São Paulo/SP: +55 11 3090-6855
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INNOVCABLE Instrumentation and Communication

150/250(300)V RU(c), TU(c), – S12 – SHF2 Resistance

1) Conductor formed by tinned electrolytic copper wires, soft temper, class 5 stranding, in accordance with IEC 60228. *1

2) Insulation of conductors in special halogen-free compound LSOH – (Code R(HEPR/EPR), T(XLPE)) – in accordance with IEC 60092-351.

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)

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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 RU(c) 250V S12 2 pair 0.75 mm2 IEC 60092-376 IEC60332-3-22

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

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Halogen content: IEC 60754-1.2 0.5%.

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

NEK-606

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

Applications

Instrumentation, communication, control and alarm cable, for fixed installations in Ex areas (Zone 2) and safe areas. Meets NEK TS 606:2009 strength requirement.

Maximum Conductor Temperature

90°C

Notes

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

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

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

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Códigos (NOMENCLATURAS)

Materiais (Nomenclaturas)	Isolamento	Capa Intermediaria	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 Intermediaria 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

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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 intermediaria LSZH
④ Armação (Cobre)
⑤ Capa Externa (SHF2 ou SHF "mud")

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Range and dimensions

Number of elements	No of cores in element	Cross section core, mm²	Conductor Diameter, mm	Insulation Thickness, mm	Thickness Outer Sheath, mm	Diameter outer sheath, mm	Weight of Cable Approx. (Kg/Km)	Copper content Approx. (kg/km)
2	2	0.75	1.1	0.6	1.1	10 ± 0.8	135	30
4	2	0.75	1.1	0.6	1.1	11.5 ± 0.8	195	55
4	2	0.75	1.1	0.6	1.1	11.5 ± 0.8	195	55
8	2	0.75	1.1	0.6	1.3	15.5 ± 0.8	380	106
12	2	0.75	1.1	0.6	1.4	18 ± 0.8	510	158
16	2	0.75	1.1	0.6	1.5	19.5 ± 0.8	640	209
19	2	0.75	1.1	0.6	1.5	20.5 ± 1	730	247
24	2	0.75	1.1	0.6	1.6	24 ± 1	910	311
2	3	0.75	1.1	0.6	1.1	11 ± 0.8	170	43
4	3	0.75	1.1	0.6	1.2	13 ± 0.8	265	81
4	3	0.75	1.1	0.6	1.2	13 ± 0.8	265	81
8	3	0.75	1.1	0.6	1.4	17.5 ± 0.8	490	158
16	3	0.75	1.1	0.6	1.6	22 ± 1	870	311
24	3	0.75	1.1	0.6	1.8	27 ± 1	1260	465
2	2	1.5	1.6	0.7	1.2	12 ± 0.8	210	62
4	2	1.5	1.6	0.7	1.2	14 ± 0.8	320	118
8	2	1.5	1.6	0.7	1.4	19.5 ± 0.8	610	229
12	2	1.5	1.6	0.7	1.6	22.5 ± 1	850	340
12	2	1.5	1.6	0.7	1.6	22.5 ± 1	850	340
16	2	1.5	1.6	0.7	1.7	24.5 ± 1	1080	452
24	2	1.5	1.6	0.7	1.9	30 ± 1.5	1550	674
2	3	1.5	1.6	0.7	1.2	13.5 ± 0.8	265	90
4	3	1.5	1.6	0.7	1.3	16 ± 0.8	430	174
8	3	1.5	1.6	0.7	1.5	21.5 ± 1	820	341
12	3	1.5	1.6	0.7	1.7	25.5 ± 1	1170	508
16	3	1.5	1.6	0.7	1.8	27.5 ± 1	1500	676
24	3	1.5	1.6	0.7	2.1	34 ± 1.5	2210	1011