



INNOVCABLE RE-2X(St)Yv-fl PiMf



- Conductor material: bare copper wires
- Conductor class: According to DIN VDE 0295 class 4 and IEC 60228 cl. 4
- Vein insulation: XLPE (special cross-linked polyethylene) 90°C
- Black and white veins identified by sequential numerical engraving.
- Pairs twisted in layers.
- Individual shielding of the pairs with aluminised polyester tape (PiMf) with 0.6mm tinned drain wire.
- General shielding in aluminized polyester tape + 0.5mm² SN drain wire.
- Outer cover: special PVC resistant to oils, grease, acids.
- BLACK or BLUE coloured outer jacket for intrinsically safe systems and as required by the application.
- Rated voltage: 300V
- Test voltage: 1.500 V
- Conductor resistance
0,5mm² - max.36,7 MΩXKm;
0,75mm² - max.25,0 MΩXKm;
1,5mm² - max.14,2 MΩXKm;
- Insulation resistance: Min.5 GΩX Km.
- Capacitance: max 115 nF/Km
- Inductivity: ca. 1mH/Km
- Coupling: max 500nF/ 500m
- Min. bending radius: 7,5 x d

Identification

INNOVCABLE INSTRUMENTATION CABLE INTRINSICALLY SAFE RE-2X(St)Yv-fl PiMf n _ x _ x
mm² 300V 90°C OF: XXXX/YEAR.

Applicable Specifications



NBR 10300

EN 50288-7

DIN VDE 0295 CLASS 4

IEC 60228 CLASS 4

IEC 60079-14

IEC 60332-1-2 and IEC 60332-3-24

IEC 60079-14 zone 1+2 group II

Applications

Instrumentation cable for lossless transmission, measurement and process control technology of analogue and digital signals. For use in intrinsically safe systems Zone 1 and Zone 2 Group II classified areas according to IEC 60079-14 (Application regulations must be observed). Features UV protection (outdoor use). Flame retardant according to IEC 60332-1-2 and IEC 60332-3-24. Resistant to oils, greases, acids. Suitable for dry and humid environments. More stable at high frequencies and temperatures (90°C) due to the material used XLPE - (cross-linked PE). Low attenuation and minimization of crosstalk effect Robust outer jacket.

Maximum Conductor Temperature

-40° C / +90° C

- Flame retardant in accordance with IEC 60332-1-2 and IEC 60332-3-24

- Can be made with other insulations:

Vein insulation material / other temperatures:

PVC/E -105°C



XLPE - 125 °C
HEPR - 90 °C
PE - 80 °C

Notes

We can manufacture other configurations on request.

1- Tinned Copper Conductor.

Stranding class 5.

2- Different sections and number of veins.

3- Insulation material of the veins / other temperatures:

PVC/E -105 °C

XLPE - 125 °C

HEPR - 90 °C

PE - 80 °C

4- Material of the intermediate layer and the cover:

PE

PVC/E

PVC/ST2

Special PVC resistant to oils, grease and other chemicals.

LSZH (non-halogenated polyolefin compound).

5- Perfectly cylindrical cover for cable gland applications in classified areas (Ex)

- We can produce upon request several other cable options and configurations. Innovcable reserves the right to change this catalogue without prior notice.



DADOS DIMENSIONAIS

Dimensional n x 2 x mm ²	Diâmetro externo Ø mm	Peso do cobre kg/km	Peso kg/km
2X2X0,5	10,5	33,0	127,0
4X2X0,5	11,8	62,0	167,0
8X2X0,5	14,5	119,0	265,0
12X2X0,5	17,0	176,0	350,0
16X2X0,5	19,0	233,0	439,0
24X2X0,5	22,4	348,0	608,0
2X2X0,75	11,3	43,0	145,0
4X2X0,75	12,8	82,0	196,0
8X2X0,75	15,9	160,0	318,0
12X2X0,75	18,6	237,0	426,0
16X2X0,75	20,8	315,0	538,0
24X2X0,75	24,8	470,0	754,0

Dimensional n x 2 x mm ²	Diâmetro externo Ø mm	Peso do cobre kg/km	Peso kg/km
2X2X1	12,0	54,0	165,0
4X2X1	13,7	103,0	228,0
8X2X1	17,1	202,0	376,0
12X2X1	20,1	301,0	512,0
16X2X1	22,6	400,0	648,0
24X2X1	26,9	598,0	918,0
2X2X1,5	13,5	68,0	189,0
4X2X1,5	14,9	124,0	268,0
8X2X1,5	18,6	239,0	452,0
12X2X1,5	22,0	353,0	616,0
16X2X1,5	24,8	468,0	788,0
24X2X1,5	29,5	697,0	1.120,0