

# PRODUCTSPECIFICATION



• Date: 01-10-2010

CABLETYPE: Instrumentationcable + 90 °C / 300 V  
EN 50288-7

Trade  
number:40326.xxxx.xxx

Producttype: INDUCOM RE-2X(st)YSWAY-fl PiMF

1 / 3

<b>Application</b>	For transmission of analogous and digital signals in measurement and process control
<b>Use</b>	For indoor and outdoor installation and direct burial

<b>Conductor</b>	Bare Copper wire 7 strands nominal cross section 0,5 to 1,5 mm <sup>2</sup>
<b>Insulation</b>	XLPE
<b>Colour code</b>	Black and white, continuously numbered
<b>Individual screen</b>	Screen of plastic bonded aluminium tape with tinned drain wire 0,6 mm Ø approx. 25% overlap, polyester tape over and under the screen.
<b>Wrapping</b>	Polyester tape
<b>Collective screen</b>	Screen of plastic bonded aluminium tape with tinned drain wire 7x 0,30 mm approx. 25% overlap
<b>Bedding</b>	PVC black
<b>Armouring</b>	Round or flat galvanized steel wires and open-pattern counterwound galvanized steel strip.
<b>Outer sheath</b>	PVC
<b>Colour</b>	Black, for intrinsically safe systems blue

## Special properties:

<b>Standard</b>	EN 50288-7
<b>Flame propagation (test on single cable)</b>	IEC 60332-1
<b>Flame propagation (test on bunched cable)</b>	IEC 60332-3-24 (Cat. C)
<b>Sunlight resistance</b>	UL 1581 section 1200
<b>Oil resistance</b>	ICEA S-82-552
<b>Cable identification</b>	INDUCOM RE-2X(st)YSWAY-fl PiMF Nx2x mm <sup>2</sup> 300V EN 50288-7 CE Length Marking
<b>Standard</b>	500m und 1000m

## Electrical properties + 20 °C:

<b>Conductor size</b>	0.5 mm <sup>2</sup>	0.75	1.3	1.5
<b>Conductor resistance</b>	max. 36,7 Ω/km	max. 25 Ω/km	max. 14,2 Ω/km	Max. 12,3 Ω/km
<b>Insulation resistance</b>	min. 5000 MΩ x km			
<b>Mutual capacitance</b>	max. 115 nF/km			
<b>Inductivity</b>	max. 1mH/km			
<b>L/R Ratio</b>	max. 25 μH/Ω	max. 25 μH/Ω	max. 40 μH/Ω	max.40 μH/Ω
<b>Operating voltage</b>	300 V			
<b>Test voltage</b>	2000 V DC			
<b>Temperature range</b>	-30 °C up to 70 °C during operation -5 °C up to +50 °C during installation			
<b>Min. bending radius</b>	10 x overall diameter			

# PRODUCTSPECIFICATION



• Date: 01-10-2010

CABLETYPE: Instrumentationcable + 90 °C / 300 V  
EN 50288-7

Trade  
number:40326.xxxx.xxx

Producttype: INDUCOM RE-2X(st)YSWAY-fl PiMF

2 / 3

## Geometrical Data:

### RE-2X(st)YSWAY-fl PIMF

Conductor size	RT of insulation	Ø of inner sheath	Ø of armour wire	RT of outer sheath	Ø of outer sheath	Cable weight
mm <sup>2</sup>	nominal mm	approx. mm	approx. mm	nominal mm	approx. mm	approx. kg/km
2x2x0,5	0,35	8,9	0,9	1,4	13,5	312
4x2x0,5	0,35	10,2	0,9	1,4	15,2	375
8x2x0,5	0,35	13,1	0,9	1,5	18,3	540
12x2x0,5	0,35	15,8	1,25	1,6	22,1	806
16x2x0,5	0,35	17,8	4x0,8	1,7	24,3	969
24x2x0,5	0,35	21,4	4x0,8	1,8	28,1	1272

Conductor size	RT of insulation	Ø of inner sheath	Ø of armour wire	RT of outer sheath	Ø of outer sheath	Cable weight
mm <sup>2</sup>	nominal mm	approx. mm	approx. mm	nominal mm	approx. mm	approx. kg/km
2x2x0,75	0,35	9,8	0,9	1,4	14,6	355
4x2x0,75	0,35	10,7	0,9	1,5	15,7	420
8x2x0,75	0,35	13,9	0,9	1,6	19,1	610
12x2x0,75	0,35	16,9	4x0,8	1,7	23,1	920
16x2x0,75	0,35	19,5	4x0,8	1,7	25,6	1095
24x2x0,75	0,35	23,4	4x0,8	1,9	29,2	1335

Conductor size	RT of insulation	Ø of inner sheath	Ø of armour wire	RT of outer sheath	Ø of outer sheath	Cable weight
mm <sup>2</sup>	nominal mm	approx. mm	approx. mm	nominal mm	approx. mm	approx. kg/km
2x2x1,3	0,46	12,1	0,9	1,5	17,2	460
4x2x1,3	0,46	12,9	0,9	1,5	17,9	530
8x2x1,3	0,46	16,7	1,25	1,7	22,7	915
12x2x1,3	0,46	20,7	4x0,8	1,8	26,0	1150
16x2x1,3	0,46	23,7	4x0,8	1,8	29,6	1405
24x2x1,3	0,46	28,9	4x0,8	2	35,3	1950

# PRODUCTSPECIFICATION



• Date: 01-10-2010

CABLETYPE: Instrumentationcable + 90°C / 300 V  
EN 50288-7

Trade  
number:40326.xxxx.xxx

Producttype: INDUCOM RE-2X(st)YSWAY-fl PiMF

3 / 3

## RE-2X(st)YSWAY-fl PIMF

Conductor size mm <sup>2</sup>	RT of insulation nominal mm	Ø of inner sheath approx. mm	Ø of armour wire approx. mm	RT of outer sheath nominal mm	Ø of outer sheath approx. mm	Cable weight approx. kg/km
2x2x1,5	0,46	1,0	0,9	1,5	16,6	475
4x2x1,5	0,46	1,1	0,9	1,5	18,7	615
8x2x1,5	0,46	1,3	0,9	1,7	24,1	1030
12x2x1,5	0,46	1,4	4x0.8	1,7	27,3	1380
16x2x1,5	0,46	1,5	4x0.8	1,8	30,7	1770
24x2x1,5	0,46	1,7	4x0.8	2,0	37,1	2380