

## APPLICATION RANGE

In measurement and control engineering  
Electrically intended for use when modern process computers have to process large volumes of data, e.g. high-capacity computer systems in waste incineration plants or sewage treatment plants  
These cables are suitable for fixed installation in dry or damp rooms and, in case of versions with a black outer sheath, also for outdoor use

## CONSTRUCTION

Conductor	Stranded electrolytic copper wire Class 2 (BS EN 60228:2005)
Insulation	PVC (Polyvinyl Chloride) Compound (EN 50290-21)
Colour Code	Black/White, each pair numbered
Wrapping	PES Tape
Overall Screen	Tinned Copper Drain Wire (0,5 mm <sup>2</sup> ) + AL-PES Tape
Sheath	PVC (Polyvinyl Chloride) Compound (EN 50290-22)
Sheath Colour	RAL 9005 Black ; RAL 5015 Blue ; RAL 7001 Grey

## TECHNICAL SPECIFICATION

Temperature Range	-30°C to +70°C (Fixed Installation)
Minimum Bending Radius	7,5 x outer diameter
Flame Retardant	Test on single cable : IEC 60332-1-2 Test on bunched cable: IEC 60332-3-24 (Cat. C)

## ELECTRICAL SPECIFICATION

Conductor cross-section	nom.	mm <sup>2</sup>	0,5	0,75	1	1,3	1,5
Conductor resistance	max.	Ω/km	36,7	25	18,5	14,2	12,3
Insulation resistance	min.	MΩxkm	100				
Mutual capacitance	max.	nF/km	120	120	120	130	130
L/R ratio	max.	μH/Ω	25			40	
Test voltage Urms (core:core)		V	2000				
Test voltage Urms (core:screen)		V	2000				
Operating Voltage		V	300				



**RE-Y(St)Y-fl**

<b>CROSS SECTION</b>	<b>OUTER DIA.±(%5)</b>	<b>G</b>
<b>mm2</b>	<b>mm</b>	<b>Kg/Km</b>
1x2x0,5	5,20	37,27
2x2x0,5	7,60	64,24
4x2x0,5	8,90	100,38
5x2x0,5	9,80	118,43
6x2x0,5	10,60	135,91
8x2x0,5	12,60	178,48
10x2x0,5	13,80	217,68
12x2x0,5	14,20	247,22
16x2x0,5	15,70	309,45
20x2x0,5	17,70	383,16
24x2x0,5	19,70	458,54
30x2x0,5	20,90	546,81
1x2x0,75	5,80	47,19
2x2x0,75	8,40	81,85
4x2x0,75	9,70	125,38
5x2x0,75	10,70	149,12
6x2x0,75	11,70	177,73
8x2x0,75	14,00	234,05
10x2x0,75	15,10	277,59
12x2x0,75	15,60	318,48
16x2x0,75	17,40	410,97
20x2x0,75	19,60	508,86
24x2x0,75	21,90	609,30
30x2x0,75	23,20	729,46
1x2x1	6,20	54,08
2x2x1	9,10	95,49
4x2x1	10,50	149,28
5x2x1	11,80	184,49
6x2x1	12,70	212,97
8x2x1	15,20	280,84
10x2x1	16,60	343,29
12x2x1	17,10	392,79
16x2x1	19,20	508,15
20x2x1	21,40	616,91
24x2x1	23,90	738,76
30x2x1	25,50	901,15
1x2x1,3	6,80	65,06
2x2x1,3	10,10	116,95
4x2x1,3	11,90	193,80
5x2x1,3	13,10	232,04
6x2x1,3	14,40	277,07
8x2x1,3	17,20	364,99
10x2x1,3	18,50	436,06
12x2x1,3	19,40	515,18
16x2x1,3	21,50	655,61
20x2x1,3	24,20	812,58
24x2x1,3	27,20	986,35
30x2x1,3	28,80	1187,85
1x2x1,5	7,20	71,42
2x2x1,5	10,70	128,96
4x2x1,5	12,70	215,99
5x2x1,5	14,20	266,47
6x2x1,5	15,40	309,65
8x2x1,5	18,40	408,16
10x2x1,5	20,10	499,67
12x2x1,5	20,70	574,66
16x2x1,5	23,20	745,08
20x2x1,5	26,10	921,48
24x2x1,5	29,20	1102,63
30x2x1,5	31,10	1345,55

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Mutual capacitance	max.	nF/km	120	120	120	130	130
L/R ratio	max.	μH/Ω	25			40	
Test voltage Urms (core:core)		V	2000				
Test voltage Urms (core:screen)		V	2000				
Operating Voltage		V	500				



## RE-Y(St)Y-fl

CROSS SECTION	OUTER DIA.±(%5)	G
mm <sup>2</sup>	mm	Kg/Km
1x2x0,5	6,20	45,69
2x2x0,5	9,10	78,95
4x2x0,5	10,50	117,28
5x2x0,5	11,80	144,51
8x2x0,5	14,50	212,67
10x2x0,5	16,60	263,92
12x2x0,5	17,10	298,08
20x2x0,5	21,40	460,07
30x2x0,5	25,50	666,50
1x2x0,75	6,60	53,05
2x2x0,75	9,70	92,98
4x2x0,75	11,50	148,87
5x2x0,75	12,70	176,74
10x2x0,75	17,90	326,71
16x2x0,75	20,70	479,45
20x2x0,75	23,30	591,87
30x2x0,75	27,80	859,39
1x2x1	7,00	60,13
2x2x1	10,40	107,00
4x2x1	12,30	174,03
5x2x1	13,80	214,47
8x2x1	17,80	325,37
10x2x1	19,40	396,43
16x2x1	22,50	584,20
20x2x1	25,30	720,82
24x2x1	28,20	861,04
30x2x1	30,10	1046,22
1x2x1,3	7,40	69,55
2x2x1,3	11,30	131,31
4x2x1,3	13,10	208,53
5x2x1,3	14,60	256,81
8x2x1,3	18,10	386,91
10x2x1,3	20,70	480,46
12x2x1,3	21,40	552,18
16x2x1,3	24,00	715,08
20x2x1,3	27,20	897,46
24x2x1,3	30,40	1072,56
30x2x1,3	32,20	1289,09
1x2x1,5	7,50	73,24
2x2x1,5	11,40	138,28
4x2x1,5	13,30	222,49
5x2x1,5	14,90	274,70
10x2x1,5	21,00	514,61
12x2x1,5	22,00	604,44
20x2x1,5	27,60	964,86
30x2x1,5	32,90	1405,99