

OVERALL SCREENED, UNARMoured, INSTRUMENTATION CABLE.

(XLPE / OSCR / PVC) RE-2X(St)Y



Flame
Retardant



EM
Interferences
Resistant



UV Resistant



ROHS
Compliant

STANDARDS

Gen to. BS/PAS 5308 Part 1 Type 1

DESCRIPTION AND APPLICATION

Used for transmission of analogue and digital signals in Instrumentation and control systems. Allowed for use in zone 1 and zone 2 group II classified areas (acc. to IEC 60079-14); not allowed for direct connection to low impedance source (i.e. the public mains electricity supply)

Recommended for indoor and outdoor installation, on racks, trays, in conduits, in dry and wet locations, where mechanical protection is not required; not for direct burial.

CONSTRUCTION

- **Conductors:** Solid (Class 1), stranded (Class 2) or flexible (Class 5) Annealed Copper, acc. to IEC 60228.
- **Insulation:** XLPE Polyethylene, acc to EN 50590-2-29
- **Cabling elements:** Pairs or Triads.
- **Core Identification:** Acc. to BS/PAS 5308-1 Ann. C. Other colour scheme available
- **Core.** Units are assembled together using the reciprocating lay technique.
- **Core wrapping.** PETP tape
- **Collective screen.** 0,50 sqmm. tinned cooper drain wire under and in contact with aluminium/PETP laminated tape applied metallic side down.
- **Sheath:** PVC, acc. to EN 50290-2-22, type TM51. Blue or Black.
- **Sheath marking :** The outer sheath shall be marked in white ink, at regular intervals, with the following information:
 - Name of manufacturer/ Year/ Length marks
 - Other type of marks according to the costumer



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ELECTRICAL CHARACTERISTICS (20°C)	0,5mm²	0,5mm²	0,75mm²	1,0mm²	1,5mm²	2,5mm²
Copper Conductor (Nr. Wires / Wire Diam.)	1/0,8	16/0,20	24/0,20	1/1,13	7/0,52	7/0,67
Conductor Resistance ¹ (Ω/km).	36,8	39,7	26,5	18,4	12,3	7,6
Minimum Insulation Resistance (MΩxkm, 20°C, 500 Vdc). Part 1	5.000					
Mutual Capacitance (nF/km, 800 Hz). Max. For OSCR cables ²	75			85		
Mutual Capacitance (nF/km, 800 Hz). Max. For ISCR cables ³	115			120		
Inductance to Resistance Ratio (L/R) (mH/Ω). Max.	25			40		
Operating voltage (V.)	300 / 500					
Test Voltage (Vac./ Vcc., 1 min)	1.500 / 2.200					

MECHANICAL CHARACTERISTICS	0,5mm²	0,5mm²	0,75mm²	1,0mm²	1,5mm²	2,5mm²
Operating Temperature (°C)	-25°C / +90°C					
Installation Temperature (°C)	-5°C / +50°C					
Bend radius (mm.) (Type 1 / Type 2)	10 x Ø cable / 15 x Ø cable					
PVC IOL. Minimum. (%)	30					
PVC HCL. Maximum. (%)	15					
Fire properties	UNE-EN 60332-1-2 / IEC 60332-1-2					

¹ For paired conductors, EN 60228:2005 admits 2% additional conductor resistance.

² Except 1-pair and 2-pair cables

³ Including 1-pair and 2-pair cables.

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(XLPE / OSCR / PVC)

RE-2X(St)Y

SIZE, DIMENSIONS AND WEIGHTS

0.5 mm ² (1/0,8)		Pair				
Product Part Nr.	Nr. Elem.	Diam. under arm. (mm)	Overall Diam. (mm)	Nominal Weight (kg/km)	Std Delivery (m)	Drum type

EB1134A50120100N	1	5,9	5,9	37,1	2.000	B08W000
EB1134A50140100N	2	6,6	6,6	52,5	2.000	B08W000
EB1134A50120300N	3	9,7	9,7	82,9	2.000	BA0W000
EB1134A50120400N	4	10,6	10,6	99,8	2.000	BA0W000
EB1134A50120500N	5	11,3	11,3	115,7	2.000	BA0W000
EB1134A50120600N	6	11,9	11,9	131,1	2.000	BA0W000
EB1134A50121000N	10	13,8	13,8	195,9	2.000	BA2W000
EB1134A50121200N	12	14,5	14,5	230,3	2.000	BA3W000
EB1134A50121500N	15	15,2	15,2	272,0	2.000	BA3W000
EB1134A50121800N	18	16,6	16,6	317,7	2.000	BA4W000
EB1134A50122000N	20	17,6	17,6	355,5	2.000	BA4W000
EB1134A50122400N	24	18,9	18,9	413,9	2.000	BA4W000
EB1134A50123000N	30	21,0	21,0	512,0	2.000	BA6W000
EB1134A50123200N	32	21,5	21,5	540,5	2.000	BA6W000
EB1134A50125000N	50	26,4	26,4	821,3	2.000	BA8W000

0.5 mm ² (1/0,8)		Triad				
Product Part Nr.	Nr. Elem.	Diam. under arm. (mm)	Overall Diam. (mm)	Nominal Weight (kg/km)	Std Delivery (m)	Drum type

EB1134A50130100N	1	6,2	6,2	44,6	2.000	B08W000
EB1134A50130300N	3	10,8	10,8	107,0	2.000	BA0W000
EB1134A50130400N	4	11,8	11,8	130,7	2.000	BA0W000
EB1134A50130500N	5	13,1	13,1	160,7	2.000	BA2W000
EB1134A50130600N	6	12,3	12,3	175,5	2.000	BA2W000
EB1134A50131000N	10	15,2	15,2	272,0	2.000	BA3W000
EB1134A50131200N	12	16,3	16,3	316,1	2.000	BA4W000
EB1134A50131500N	15	18,1	18,1	390,1	2.000	BA4W000
EB1134A50131800N	18	19,5	19,5	455,4	2.000	BA4W000
EB1134A50132000N	20	20,6	20,6	509,3	2.000	BA6W000
EB1134A50132400N	24	22,2	22,2	595,5	2.000	BA6W000
EB1134A50133000N	30	24,6	24,6	734,9	2.000	BA8W000
EB1134A50133200N	32	25,5	25,5	789,3	2.000	BA8W000
EB1134A50135000N	50	31,3	31,3	1199,1	2.000	BB0W000

0,5 mm ² (16/0,20)		Pair				
Product Part Nr.	Nr. Elem.	Diam. under arm. (mm)	Overall Diam. (mm)	Nominal Weight (kg/km)	Std Delivery (m)	Drum type

EB1134A50320100N	1	6,3	6,3	38,7	2.000	B08W000
EB1134A50340100N	2	7,2	7,2	56,3	2.000	B08W000
EB1134A50320300N	3	10,6	10,6	87,5	2.000	BA0W000
EB1134A50320400N	4	11,6	11,6	104,9	2.000	BA0W000
EB1134A50320500N	5	12,6	12,6	127,1	2.000	BA2W000
EB1134A50320600N	6	13,2	13,2	143,0	2.000	BA2W000
EB1134A50321000N	10	15,3	15,3	210,6	2.000	BA3W000
EB1134A50321200N	12	15,9	15,9	239,3	2.000	BA4W000
EB1134A50321500N	15	16,7	16,7	281,9	2.000	BA4W000
EB1134A50321800N	18	18,5	18,5	337,6	2.000	BA4W000
EB1134A50322000N	20	19,3	19,3	367,8	2.000	BA4W000
EB1134A50322400N	24	21,1	21,1	439,3	2.000	BA6W000
EB1134A50323000N	30	23,3	23,3	539,5	2.000	BA6W000
EB1134A50323200N	32	24,0	24,0	569,9	2.000	BA6W000
EB1134A50325000N	50	29,4	29,4	860,8	2.000	BB0W000

0,5 mm ² (16/0,20)		Triad				
Product Part Nr.	Nr. Elem.	Diam. under arm. (mm)	Overall Diam. (mm)	Nominal Weight (kg/km)	Std Delivery (m)	Drum type

EB1134A50330100N	1	6,6	6,6	46,3	2.000	B08W000
EB1134A50330300N	3	11,8	11,8	112,2	2.000	BA0W000
EB1134A50330400N	4	13,0	13,0	141,9	2.000	BA2W000
EB1134A50330500N	5	14,4	14,4	173,7	2.000	BA3W000
EB1134A50330600N	6	13,4	13,4	182,0	2.000	BA2W000
EB1134A50331000N	10	16,6	16,6	281,4	2.000	BA4W000
EB1134A50331200N	12	18,1	18,1	335,1	2.000	BA4W000
EB1134A50331500N	15	20,1	20,1	412,5	2.000	BA6W000
EB1134A50331800N	18	21,6	21,6	480,8	2.000	BA6W000
EB1134A50332000N	20	22,6	22,6	525,5	2.000	BA6W000
EB1134A50332400N	24	24,6	24,6	624,9	2.000	BA8W000
EB1134A50333000N	30	27,3	27,3	769,5	2.000	BB0W000
EB1134A50333200N	32	28,1	28,1	813,6	2.000	BB0W000
EB1134A50335000N	50	34,7	34,7	1249,4	1.600	BBB0W000

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EB1134A-Ed2

OVERALL SCREENED, UNARMoured, INSTRUMENTATION CABLE.
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0,75 mm ² (24/0,20)		Pair				
Product Part Nr.	Nr. Elem.	Diam. under arm. (mm)	Overall Diam. (mm)	Nominal Weight (kg/km)	Std Delivery (m)	Drum type
EB1134A75320100N	1	6,8	6,8	45,9	2.000	B08W000
EB1134A75340100N	2	7,7	7,7	66,4	2.000	B08W000
EB1134A75320300N	3	11,4	11,4	103,2	2.000	BA0W000
EB1134A75320400N	4	12,8	12,8	131,4	2.000	BA2W000
EB1134A75320500N	5	13,7	13,7	152,7	2.000	BA2W000
EB1134A75320600N	6	14,6	14,6	179,7	2.000	BA3W000
EB1134A75321000N	10	16,7	16,7	258,2	2.000	BA4W000
EB1134A75321200N	12	17,6	17,6	303,6	2.000	BA4W000
EB1134A75321500N	15	18,5	18,5	359,0	2.000	BA4W000
EB1134A75321800N	18	20,5	20,5	429,5	2.000	BA6W000
EB1134A75322000N	20	21,4	21,4	469,9	2.000	BA6W000
EB1134A75322400N	24	23,3	23,3	558,6	2.000	BA6W000
EB1134A75323000N	30	25,8	25,8	686,8	2.000	BA8W000
EB1134A75323200N	32	26,5	26,5	725,4	2.000	BA8W000
EB1134A75325000N	50	32,5	32,5	1097,6	1.900	BBBW000

0,75 mm ² (24/0,20)		Triad				
Product Part Nr.	Nr. Elem.	Diam. under arm. (mm)	Overall Diam. (mm)	Nominal Weight (kg/km)	Std Delivery (m)	Drum type
EB1134A75330100N	1	7,2	7,2	55,9	2.000	B08W000
EB1134A75330300N	3	12,9	12,9	140,2	2.000	BA2W000
EB1134A75330400N	4	14,1	14,1	171,4	2.000	BA3W000
EB1134A75330500N	5	15,7	15,7	210,8	2.000	BA3W000
EB1134A75330600N	6	14,8	14,8	230,8	2.000	BA3W000
EB1134A75331000N	10	18,4	18,4	358,4	2.000	BA4W000
EB1134A75331200N	12	20,0	20,0	426,1	2.000	BA6W000
EB1134A75331500N	15	21,9	21,9	514,9	2.000	BA6W000
EB1134A75331800N	18	23,9	23,9	612,8	2.000	BA6W000
EB1134A75332000N	20	25,2	25,2	682,2	2.000	BA8W000
EB1134A75332400N	24	27,2	27,2	797,4	2.000	BB0W000
EB1134A75333000N	30	30,2	30,2	982,4	2.000	BB0W000
EB1134A75333200N	32	31,2	31,2	1053,1	1.900	BB0W000
EB1134A75335000N	50	38,3	38,3	1595,1	1.200	BB0W000

1,0 mm ² (1/1,13)		Pair				
Product Part Nr.	Nr. Elem.	Diam. under arm. (mm)	Overall Diam. (mm)	Nominal Weight (kg/km)	Std Delivery (m)	Drum type
EB1134AA0120100N	1	6,9	6,9	52,8	2.000	B08W000
EB1134AA0140100N	2	7,8	7,8	79,8	2.000	B08W000
EB1134AA0120300N	3	11,5	11,5	123,1	2.000	BA0W000
EB1134AA0120400N	4	12,9	12,9	157,8	2.000	BA2W000
EB1134AA0120500N	5	13,8	13,8	185,6	2.000	BA2W000
EB1134AA0120600N	6	14,7	14,7	219,1	2.000	BA3W000
EB1134AA0121000N	10	16,8	16,8	323,5	2.000	BA4W000
EB1134AA0121200N	12	17,7	17,7	381,9	2.000	BA4W000
EB1134AA0121500N	15	18,6	18,6	456,8	2.000	BA4W000
EB1134AA0121800N	18	20,6	20,6	547,9	2.000	BA6W000
EB1134AA0122000N	20	21,6	21,6	600,9	2.000	BA6W000
EB1134AA0122400N	24	23,5	23,5	715,5	2.000	BA6W000
EB1134AA0123000N	30	26,0	26,0	882,7	2.000	BA8W000
EB1134AA0123200N	32	26,7	26,7	934,3	2.000	BB0W000
EB1134AA0125000N	50	32,8	32,8	1424,1	1.900	BBBW000

1,0 mm ² (1/1,13)		Triad				
Product Part Nr.	Nr. Elem.	Diam. under arm. (mm)	Overall Diam. (mm)	Nominal Weight (kg/km)	Std Delivery (m)	Drum type
EB1134AA0130100N	1	7,2	7,2	65,6	2.000	B08W000
EB1134AA0130300N	3	13,0	13,0	169,9	2.000	BA2W000
EB1134AA0130400N	4	14,4	14,4	217,4	2.000	BA3W000
EB1134AA0130500N	5	15,8	15,8	260,1	2.000	BA4W000
EB1134AA0130600N	6	14,9	14,9	289,7	2.000	BA3W000
EB1134AA0131000N	10	18,5	18,5	456,2	2.000	BA4W000
EB1134AA0131200N	12	20,2	20,2	544,1	2.000	BA6W000
EB1134AA0131500N	15	22,1	22,1	662,1	2.000	BA6W000
EB1134AA0131800N	18	24,1	24,1	789,3	2.000	BA6W000
EB1134AA0132000N	20	25,4	25,4	878,2	2.000	BA8W000
EB1134AA0132400N	24	27,4	27,4	1032,1	2.000	BB0W000
EB1134AA0133000N	30	30,6	30,6	1289,7	2.000	BB0W000
EB1134AA0133200N	32	31,5	31,5	1366,8	1.900	BB0W000
EB1134AA0135000N	50	38,7	38,7	2084,9	1.200	BB0W000

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EB1134A-Ed2

OVERALL SCREENED, UNARMoured, INSTRUMENTATION CABLE.
(XLPE / OSCR / PVC) RE-2X(St)Y

1,5 mm ² (7/0,52)		Pair				
Product Part Nr.	Nr. Elem.	Diam. under arm. (mm)	Overall Diam. (mm)	Nominal Weight (kg/km)	Std Delivery (m)	Drum type
EB1134AA5220100N	1	7,8	7,8	67,7	2.000	B08W000
EB1134AA5240100N	2	9,1	9,1	110,8	2.000	BA0W000
EB1134AA5220300N	3	13,6	13,6	171,6	2.000	BA2W000
EB1134AA5220400N	4	15,2	15,2	220,0	2.000	BA3W000
EB1134AA5220500N	5	16,3	16,3	260,5	2.000	BA4W000
EB1134AA5220600N	6	17,2	17,2	299,8	2.000	BA4W000
EB1134AA5221000N	10	20,2	20,2	469,9	2.000	BA6W000
EB1134AA5221200N	12	21,1	21,1	545,5	2.000	BA6W000
EB1134AA5221500N	15	22,2	22,2	655,5	2.000	BA6W000
EB1134AA5221800N	18	24,6	24,6	784,2	2.000	BA8W000
EB1134AA5222000N	20	25,9	25,9	872,4	2.000	BA8W000
EB1134AA5222400N	24	28,0	28,0	1025,2	2.000	BB0W000
EB1134AA5223000N	30	31,2	31,2	1280,4	2.000	BB0W000
EB1134AA5223200N	32	32,1	32,1	1356,5	1.900	BB0W000
EB1134AA5225000N	50	39,7	39,7	2086,8	1.200	BB0W000

1,5 mm ² (7/0,52)		Triad				
Product Part Nr.	Nr. Elem.	Diam. under arm. (mm)	Overall Diam. (mm)	Nominal Weight (kg/km)	Std Delivery (m)	Drum type
EB1134AA5230100N	1	8,2	8,2	86,5	2.000	B08W000
EB1134AA5230300N	3	15,3	15,3	237,7	2.000	BA3W000
EB1134AA5230400N	4	16,8	16,8	297,5	2.000	BA4W000
EB1134AA5230500N	5	18,6	18,6	366,4	2.000	BA4W000
EB1134AA5230600N	6	17,6	17,6	411,7	2.000	BA4W000
EB1134AA5231000N	10	22,0	22,0	654,2	2.000	BA6W000
EB1134AA5231200N	12	24,0	24,0	779,9	2.000	BA6W000
EB1134AA5231500N	15	26,5	26,5	962,5	2.000	BA8W000
EB1134AA5231800N	18	28,9	28,9	1146,5	2.000	BB0W000
EB1134AA5232000N	20	30,2	30,2	1259,7	2.000	BB0W000
EB1134AA5232400N	24	32,9	32,9	1500,3	1.900	BBB0W000
EB1134AA5233000N	30	36,7	36,7	1871,0	1.400	BB0W000
EB1134AA5233200N	32	37,8	37,8	1984,1	1.300	BB0W000
EB1134AA5235000N	50	47,1	47,1	3091,4	800	BB0W000

2,5 mm ² (7/0,67)		Pair				
Product Part Nr.	Nr. Elem.	Diam. under arm. (mm)	Overall Diam. (mm)	Nominal Weight (kg/km)	Std Delivery (m)	Drum type
EB1134AB5220100N	1	8,7	8,7	90,9	2.000	B08W000
EB1134AB5240100N	2	10,2	10,2	154,8	2.000	BA0W000
EB1134AB5220300N	3	15,7	15,7	246,8	2.000	BA3W000
EB1134AB5220400N	4	17,6	17,6	318,1	2.000	BA4W000
EB1134AB5220500N	5	18,9	18,9	379,7	2.000	BA4W000
EB1134AB5220600N	6	20,2	20,2	449,3	2.000	BA6W000
EB1134AB5221000N	10	23,3	23,3	695,1	2.000	BA6W000
EB1134AB5221200N	12	24,4	24,4	810,1	2.000	BA6W000
EB1134AB5221500N	15	25,9	25,9	992,2	2.000	BA8W000
EB1134AB5221800N	18	28,7	28,7	1185,9	2.000	BB0W000
EB1134AB5222000N	20	30,1	30,1	1304,5	2.000	BB0W000
EB1134AB5222400N	24	32,7	32,7	1553,3	1.900	BBB0W000
EB1134AB5223000N	30	36,5	36,5	1937,5	1.600	BBB0W000
EB1134AB5223200N	32	37,5	37,5	2054,2	1.400	BB0W000
EB1134AB5225000N	50	46,8	46,8	3201,8	900	BBB0W000

2,5 mm ² (7/0,67)		Triad				
Product Part Nr.	Nr. Elem.	Diam. under arm. (mm)	Overall Diam. (mm)	Nominal Weight (kg/km)	Std Delivery (m)	Drum type
EB1134AB5230100N	1	9,4	9,4	124,2	2.000	BA0W000
EB1134AB5230300N	3	17,6	17,6	344,9	2.000	BA4W000
EB1134AB5230400N	4	19,3	19,3	435,8	2.000	BA4W000
EB1134AB5230500N	5	21,4	21,4	538,9	2.000	BA6W000
EB1134AB5230600N	6	20,4	20,4	611,5	2.000	BA6W000
EB1134AB5231000N	10	25,7	25,7	990,7	2.000	BA8W000
EB1134AB5231200N	12	27,8	27,8	1167,5	2.000	BB0W000
EB1134AB5231500N	15	31,0	31,0	1458,4	2.000	BB0W000
EB1134AB5231800N	18	33,5	33,5	1721,0	1.900	BBB0W000
EB1134AB5232000N	20	35,3	35,3	1911,8	1.600	BBB0W000
EB1134AB5232400N	24	38,4	38,4	2277,2	1.300	BB0W000
EB1134AB5233000N	30	43,1	43,1	2855,1	1.000	BB0W000
EB1134AB5233200N	32	44,3	44,3	3028,9	1.000	BB0W000
EB1134AB5235000N	50	54,8	54,8	4681,6	600	BB0W000

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