

OVERALL SCREENED, SWA ARMoured, INSTRUMENTATION CABLE.

(PE / OSCR / PE / SWA / PVC)

RE-2Y(St)2YSWAY



Flame Retardant



EM Interferences Resistant



UV Resistant



ROHS Compliant

STANDARDS

BS/PAS 5308 Part 1 Type 2

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 outdoor installation, on racks, trays, in conduits, in dry and wet locations, for direct burial.

CONSTRUCTION

- **Conductors:** Solid (Class 1), stranded (Class 2) or flexible (Class 5) Annealed Copper, acc. to IEC 60228.
- **Insulation:** PE Polyethylene, acc to EN 50590-2-23
- **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 copper drain wire under and in contact with aluminium/PETP laminated tape applied metallic side down.
- **Inner Sheath:** PE, acc. to EN 50290-2-24, grade LD. Blue or Black.
- **Armour:** Single layer of Galvanized Steel Wire Armouring (GSWA), applied spirally over the PE bedding. Wire diameter acc. to BS/PAS5308 app D.
- **Outer 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 / +70°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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EB111B6-Ed2

OVERALL SCREENED, SWA ARMoured, INSTRUMENTATION CABLE.
(PE / OSCR / PE / SWA / PVC) RE-2Y(St)2YSWAY

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

EB111B650120100N	1	5,9	10,3	203,7	2.000	BA0W000
EB111B650140100N	2	6,6	11,0	232,4	2.000	BA0W000
EB111B650120300N	3	9,4	14,0	325,5	2.000	BA2W000
EB111B650120400N	4	10,5	15,1	370,6	2.000	BA3W000
EB111B650120500N	5	11,2	15,8	399,8	2.000	BA4W000
EB111B650120600N	6	11,8	16,6	435,6	2.000	BA4W000
EB111B650121000N	10	13,7	19,2	659,1	2.000	BA4W000
EB111B650121200N	12	14,2	19,7	699,0	2.000	BA4W000
EB111B650121500N	15	14,9	20,6	772,6	2.000	BA6W000
EB111B650121800N	18	16,5	22,2	870,1	2.000	BA6W000
EB111B650122000N	20	17,5	23,2	929,8	2.000	BA6W000
EB111B650122400N	24	18,8	25,4	1189,9	2.000	BA8W000
EB111B650123000N	30	20,9	27,7	1372,4	2.000	BB0W000
EB111B650123200N	32	21,4	28,2	1419,6	2.000	BB0W000
EB111B650125000N	50	26,3	33,3	1894,3	1.900	BBBW000

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

EB111B650130100N	1	6,2	10,6	217,6	2.000	BA0W000
EB111B650130300N	3	10,7	15,3	378,8	2.000	BA3W000
EB111B650130400N	4	11,7	16,5	434,6	2.000	BA4W000
EB111B650130500N	5	13,0	18,5	601,2	2.000	BA4W000
EB111B650130600N	6	12,2	17,7	592,7	2.000	BA4W000
EB111B650131000N	10	14,9	20,6	772,6	2.000	BA6W000
EB111B650131200N	12	16,2	21,9	857,2	2.000	BA6W000
EB111B650131500N	15	18,0	24,6	1130,1	2.000	BA8W000
EB111B650131800N	18	19,4	26,0	1250,5	2.000	BA8W000
EB111B650132000N	20	20,3	26,9	1331,5	2.000	BB0W000
EB111B650132400N	24	22,1	28,9	1510,3	2.000	BB0W000
EB111B650133000N	30	24,5	31,5	1737,6	2.000	BB0W000
EB111B650133200N	32	25,2	32,2	1816,2	1.900	BBBW000
EB111B650135000N	50	31,0	39,2	2737,8	1.300	BBBW000

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

EB111B650320100N	1	6,3	10,7	212,2	2.000	BA0W000
EB111B650340100N	2	7,1	11,5	246,8	2.000	BA0W000
EB111B650320300N	3	10,5	15,1	358,3	2.000	BA3W000
EB111B650320400N	4	11,5	16,3	402,8	2.000	BA4W000
EB111B650320500N	5	12,5	18,0	555,4	2.000	BA4W000
EB111B650320600N	6	13,1	18,6	583,9	2.000	BA4W000
EB111B650321000N	10	15,0	20,7	711,6	2.000	BA6W000
EB111B650321200N	12	15,8	21,5	768,7	2.000	BA6W000
EB111B650321500N	15	16,6	22,3	834,8	2.000	BA6W000
EB111B650321800N	18	18,4	25,0	1095,6	2.000	BA8W000
EB111B650322000N	20	19,2	25,8	1161,8	2.000	BA8W000
EB111B650322400N	24	21,0	27,8	1300,3	2.000	BB0W000
EB111B650323000N	30	23,2	30,0	1488,8	2.000	BB0W000
EB111B650323200N	32	23,9	30,9	1553,1	2.000	BB0W000
EB111B650325000N	50	29,3	36,5	2058,8	1.300	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

EB111B650330100N	1	6,6	11,0	226,2	2.000	BA0W000
EB111B650330300N	3	11,7	16,5	416,2	2.000	BA4W000
EB111B650330400N	4	12,9	18,4	581,9	2.000	BA4W000
EB111B650330500N	5	14,1	19,6	641,9	2.000	BA4W000
EB111B650330600N	6	13,3	18,8	633,6	2.000	BA4W000
EB111B650331000N	10	16,5	22,2	833,8	2.000	BA6W000
EB111B650331200N	12	18,0	24,6	1075,1	2.000	BA8W000
EB111B650331500N	15	19,8	26,4	1216,3	2.000	BA8W000
EB111B650331800N	18	21,5	28,3	1360,5	2.000	BB0W000
EB111B650332000N	20	22,5	29,3	1442,6	2.000	BB0W000
EB111B650332400N	24	24,5	31,5	1627,7	1.900	BB0W000
EB111B650333000N	30	27,2	34,2	1879,4	1.600	BB0W000
EB111B650333200N	32	28,0	35,2	1960,3	1.400	BB0W000

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EB11B6-Ed2

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(PE / OSCR / PE / SWA / PVC) RE-2Y(St)2YSWAY

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
EB11B675320100N	1	6,7	11,1	229,7	2.000	BA0W000
EB11B675340100N	2	7,6	12,2	274,7	2.000	BA2W000
EB11B675320300N	3	11,3	16,1	400,1	2.000	BA4W000
EB11B675320400N	4	12,7	18,2	560,7	2.000	BA4W000
EB11B675320500N	5	13,6	19,1	605,7	2.000	BA4W000
EB11B675320600N	6	14,3	19,8	648,7	2.000	BA6W000
EB11B675321000N	10	16,6	22,3	811,0	2.000	BA6W000
EB11B675321200N	12	17,5	23,2	877,8	2.000	BA6W000
EB11B675321500N	15	18,4	25,0	1117,0	2.000	BA8W000
EB11B675321800N	18	20,2	26,8	1251,1	2.000	BB0W000
EB11B675322000N	20	21,3	28,1	1348,4	2.000	BB0W000
EB11B675322400N	24	23,2	30,0	1507,8	2.000	BB0W000
EB11B675323000N	30	25,5	32,5	1715,3	1.900	BBB0W000
EB11B675323200N	32	26,4	33,4	1798,9	1.600	BB0W000
EB11B675325000N	50	32,4	40,6	2704,3	1.200	BB0W000

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
EB11B675330100N	1	7,1	11,5	246,4	2.000	BA0W000
EB11B675330300N	3	12,8	18,3	570,0	2.000	BA4W000
EB11B675330400N	4	14,0	19,5	636,1	2.000	BA4W000
EB11B675330500N	5	15,6	21,3	729,5	2.000	BA6W000
EB11B675330600N	6	14,5	20,0	710,5	2.000	BA6W000
EB11B675331000N	10	18,3	24,9	1115,8	2.000	BA8W000
EB11B675331200N	12	19,7	26,3	1229,5	2.000	BA8W000
EB11B675331500N	15	21,8	28,6	1412,1	2.000	BB0W000
EB11B675331800N	18	23,8	30,6	1581,3	2.000	BB0W000
EB11B675332000N	20	24,9	31,9	1691,6	1.900	BB0W000
EB11B675332400N	24	27,1	34,1	1890,9	1.600	BB0W000
EB11B675333000N	30	30,1	38,3	2480,1	1.300	BB0W000
EB11B675333200N	32	30,9	39,1	2591,1	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
EB11B6A0120100N	1	6,8	11,2	237,0	2.000	BA0W000
EB11B6A0140100N	2	7,7	12,3	288,6	2.000	BA2W000
EB11B6A0120300N	3	11,4	16,2	420,5	2.000	BA4W000
EB11B6A0120400N	4	12,8	18,3	587,6	2.000	BA4W000
EB11B6A0120500N	5	13,7	19,2	648,8	2.000	BA4W000
EB11B6A0120600N	6	14,4	19,9	688,6	2.000	BA6W000
EB11B6A0121000N	10	16,7	22,4	876,9	2.000	BA6W000
EB11B6A0121200N	12	17,6	23,5	967,5	2.000	BA6W000
EB11B6A0121500N	15	18,5	25,1	1215,3	2.000	BA8W000
EB11B6A0121800N	18	20,3	26,9	1370,1	2.000	BB0W000
EB11B6A0122000N	20	21,5	28,3	1480,5	2.000	BB0W000
EB11B6A0122400N	24	23,4	30,2	1665,9	2.000	BB0W000
EB11B6A0123000N	30	25,7	32,7	1928,1	1.900	BBB0W000
EB11B6A0123200N	32	26,6	33,6	2009,0	1.600	BB0W000
EB11B6A0125000N	50	32,7	40,9	3057,4	1.100	BB0W000

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
EB11B6A0130100N	1	7,1	11,5	256,2	2.000	BA0W000
EB11B6A0130300N	3	12,9	18,4	609,8	2.000	BA4W000
EB11B6A0130400N	4	14,1	19,6	685,6	2.000	BA4W000
EB11B6A0130500N	5	15,7	21,4	788,8	2.000	BA6W000
EB11B6A0130600N	6	14,6	20,3	779,1	2.000	BA6W000
EB11B6A0131000N	10	18,4	25,0	1214,2	2.000	BA8W000
EB11B6A0131200N	12	19,9	26,5	1348,5	2.000	BA8W000
EB11B6A0131500N	15	22,0	28,8	1560,5	2.000	BB0W000
EB11B6A0131800N	18	24,0	31,0	1773,1	2.000	BB0W000
EB11B6A0132000N	20	25,1	32,1	1888,7	1.900	BB0W000
EB11B6A0132400N	24	27,3	34,3	2142,6	1.600	BB0W000
EB11B6A0133000N	30	30,3	38,5	2799,2	1.300	BBB0W000
EB11B6A0133200N	32	31,2	39,4	2906,6	1.200	BB0W000

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EB111B6-Ed2

OVERALL SCREENED, SWA ARMoured, INSTRUMENTATION CABLE.
(PE / OSCR / PE / SWA / PVC) RE-2Y(St)2YSWAY

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
EB111B6A5220100N	1	7,7	12,3	276,5	2.000	BA2W000
EB111B6A5240100N	2	8,8	13,4	340,8	2.000	BA2W000
EB111B6A5220300N	3	13,5	19,0	624,1	2.000	BA4W000
EB111B6A5220400N	4	14,9	20,6	720,5	2.000	BA6W000
EB111B6A5220500N	5	16,2	21,9	801,5	2.000	BA6W000
EB111B6A5220600N	6	17,1	22,8	864,8	2.000	BA6W000
EB111B6A5221000N	10	19,9	26,5	1274,1	2.000	BA8W000
EB111B6A5221200N	12	21,0	27,8	1406,4	2.000	BB0W000
EB111B6A5221500N	15	22,1	28,9	1570,2	2.000	BB0W000
EB111B6A5221800N	18	24,5	31,5	1786,8	2.000	BB0W000
EB111B6A5222000N	20	25,6	32,6	1901,4	1.900	BBB0W000
EB111B6A5222400N	24	27,9	35,1	2171,1	1.600	BBB0W000
EB111B6A5223000N	30	30,9	39,1	2818,2	1.300	BBB0W000
EB111B6A5223200N	32	32,0	40,2	2935,9	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
EB111B6A5230100N	1	8,1	12,7	302,3	2.000	BA2W000
EB111B6A5230300N	3	15,0	20,7	738,7	2.000	BA6W000
EB111B6A5230400N	4	16,7	22,4	850,8	2.000	BA6W000
EB111B6A5230500N	5	18,5	25,1	1124,8	2.000	BA8W000
EB111B6A5230600N	6	17,5	23,2	986,0	2.000	BA6W000
EB111B6A5231000N	10	21,9	28,7	1551,9	2.000	BB0W000
EB111B6A5231200N	12	23,9	30,9	1763,1	2.000	BB0W000
EB111B6A5231500N	15	26,4	33,4	2036,0	1.900	BBB0W000
EB111B6A5231800N	18	28,8	36,0	2325,4	1.400	BB0W000
EB111B6A5232000N	20	30,1	38,3	2757,2	1.300	BB0W000
EB111B6A5232400N	24	32,8	41,0	3134,2	1.200	BBB0W000

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
EB111B6B5220100N	1	8,6	13,2	319,1	2.000	BA2W000
EB111B6B5240100N	2	10,1	14,7	413,7	2.000	BA3W000
EB111B6B5220300N	3	15,6	21,3	765,3	2.000	BA6W000
EB111B6B5220400N	4	17,5	23,2	892,2	2.000	BA6W000
EB111B6B5220500N	5	18,8	25,4	1155,5	2.000	BA8W000
EB111B6B5220600N	6	19,9	26,5	1253,5	2.000	BA8W000
EB111B6B5221000N	10	23,2	30,0	1644,1	2.000	BB0W000
EB111B6B5221200N	12	24,3	31,3	1811,4	2.000	BB0W000
EB111B6B5221500N	15	25,6	32,6	2021,2	1.900	BBB0W000
EB111B6B5221800N	18	28,6	35,8	2347,7	1.600	BBB0W000
EB111B6B5222000N	20	30,0	37,2	2522,3	1.400	BB0W000
EB111B6B5222400N	24	32,6	40,8	3161,1	1.200	BB0W000

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
EB111B6B5230100N	1	9,1	13,7	360,4	2.000	BA2W000
EB111B6B5230300N	3	17,5	23,2	919,1	2.000	BA6W000
EB111B6B5230400N	4	19,2	25,8	1229,6	2.000	BA8W000
EB111B6B5230500N	5	21,3	28,1	1417,2	2.000	BB0W000
EB111B6B5230600N	6	20,1	26,7	1432,5	2.000	BB0W000
EB111B6B5231000N	10	25,4	32,4	2018,5	1.900	BBB0W000
EB111B6B5231200N	12	27,7	34,7	2295,9	1.600	BBB0W000
EB111B6B5231500N	15	30,7	38,9	2970,3	1.300	BBB0W000
EB111B6B5231800N	18	33,4	41,6	3383,4	1.100	BB0W000

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