

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



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).

Individually screened elements for improved EM protection between pairs/triads.

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:** Numbered tapes applied over screened element.
- **Individual screen:** 0,50 sqmm. tinned cooper drain wire under and in contact with aluminium/PETP laminated tape applied metallic side down. Numbered PETP tape applied over each individually screened pair.
- **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.
- **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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(PE / ISCR / OSCR / PE / SWA / PVC)

RE-2Y(St)2YSWAY -p/tIMF

ELECTRICAL CHARACTERISTICS (20°C)	0,5mm ²	0,5mm ²	0,75mm ²	1,0mm ²	1,5mm ²	2,5mm ²
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 ISCR cables	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	0,5mm ²	0,5mm ²	0,75mm ²	1,0mm ²	1,5mm ²	2,5mm ²
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.

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EB115B6-Ed2

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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

EB115B650120200N	2	10,0	14,6	342,6	2.000	BA3W000
EB115B650120300N	3	11,2	15,8	392,4	2.000	BA4W000
EB115B650120400N	4	11,7	16,5	433,2	2.000	BA4W000
EB115B650120500N	5	12,7	18,2	586,8	2.000	BA4W000
EB115B650120600N	6	13,1	18,6	619,0	2.000	BA4W000
EB115B650121000N	10	16,3	22,0	817,0	2.000	BA6W000
EB115B650121200N	12	17,8	23,7	924,3	2.000	BA6W000
EB115B650121500N	15	19,5	26,1	1189,6	2.000	BA8W000
EB115B650121800N	18	21,2	28,0	1347,8	2.000	BB0W000
EB115B650122000N	20	22,2	29,0	1428,9	2.000	BB0W000
EB115B650122400N	24	24,2	31,2	1611,8	2.000	BB0W000
EB115B650123000N	30	26,8	33,8	1843,3	1.900	BBBW000
EB115B650123200N	32	27,6	34,6	1907,1	1.900	BBBW000
EB115B650125000N	50	34,1	42,5	2926,6	1.200	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

EB115B650130200N	2	10,5	15,1	370,2	2.000	BA3W000
EB115B650130300N	3	11,8	16,6	435,0	2.000	BA4W000
EB115B650130400N	4	12,4	17,9	581,4	2.000	BA4W000
EB115B650130500N	5	13,3	18,8	644,4	2.000	BA4W000
EB115B650130600N	6	13,8	19,3	684,1	2.000	BA4W000
EB115B650131000N	10	17,2	22,9	910,6	2.000	BA6W000
EB115B650131200N	12	18,7	25,3	1186,4	2.000	BA8W000
EB115B650131500N	15	20,7	27,3	1354,3	2.000	BB0W000
EB115B650131800N	18	22,4	29,2	1510,6	2.000	BB0W000
EB115B650132000N	20	23,6	30,4	1613,2	2.000	BB0W000
EB115B650132400N	24	25,5	32,5	1815,6	2.000	BBBW000
EB115B650133000N	30	28,5	35,7	2131,2	1.800	BBBW000
EB115B650133200N	32	29,3	36,5	2224,2	1.600	BBBW000
EB115B650135000N	50	36,0	44,4	3353,5	1.100	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

EB115B650320200N	2	10,7	15,3	359,8	2.000	BA3W000
EB115B650320300N	3	12,3	17,8	536,9	2.000	BA4W000
EB115B650320400N	4	12,7	18,2	569,4	2.000	BA4W000
EB115B650320500N	5	13,6	19,1	616,7	2.000	BA4W000
EB115B650320600N	6	14,1	19,6	659,9	2.000	BA4W000
EB115B650321000N	10	17,8	23,7	890,3	2.000	BA6W000
EB115B650321200N	12	19,1	25,7	1133,0	2.000	BA8W000
EB115B650321500N	15	21,2	28,0	1296,7	2.000	BB0W000
EB115B650321800N	18	23,1	29,9	1430,2	2.000	BB0W000
EB115B650322000N	20	24,2	31,2	1543,6	2.000	BB0W000
EB115B650322400N	24	26,3	33,3	1716,8	2.000	BBBW000
EB115B650323000N	30	29,2	36,4	1972,4	1.600	BBBW000
EB115B650323200N	32	30,0	37,2	2053,1	1.600	BBBW000
EB115B650325000N	50	37,1	45,5	3097,5	1.000	BBBW000

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

EB115B650330200N	2	11,2	15,8	387,5	2.000	BA4W000
EB115B650330300N	3	12,9	18,4	581,8	2.000	BA4W000
EB115B650330400N	4	13,4	18,9	621,9	2.000	BA4W000
EB115B650330500N	5	14,3	19,8	675,6	2.000	BA6W000
EB115B650330600N	6	14,8	20,5	725,1	2.000	BA6W000
EB115B650331000N	10	18,7	25,3	1139,9	2.000	BA8W000
EB115B650331200N	12	20,2	26,8	1255,4	2.000	BB0W000
EB115B650331500N	15	22,4	29,2	1440,8	2.000	BB0W000
EB115B650331800N	18	24,4	31,4	1625,7	2.000	BB0W000
EB115B650332000N	20	25,5	32,5	1722,6	2.000	BBBW000
EB115B650332400N	24	27,8	34,8	1940,6	1.800	BBBW000
EB115B650333000N	30	30,8	39,0	2550,5	1.400	BBBW000
EB115B650333200N	32	31,9	40,1	2650,5	1.300	BBBW000

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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

EB115B675320200N	2	11,4	16,2	397,0	2.000	BA4W000
EB115B675320300N	3	13,1	18,6	576,6	2.000	BA4W000
EB115B675320400N	4	13,6	19,1	614,3	2.000	BA4W000
EB115B675320500N	5	14,6	20,3	685,6	2.000	BA6W000
EB115B675320600N	6	15,3	21,0	739,1	2.000	BA6W000
EB115B675321000N	10	19,1	25,7	1136,5	2.000	BA8W000
EB115B675321200N	12	20,8	27,4	1256,1	2.000	BB0W000
EB115B675321500N	15	23,1	29,9	1435,5	2.000	BB0W000
EB115B675321800N	18	24,9	31,9	1605,2	2.000	BB0W000
EB115B675322000N	20	26,3	33,3	1723,8	2.000	BBB0W000
EB115B675322400N	24	28,6	35,8	1933,8	1.600	BBB0W000
EB115B675323000N	30	31,7	39,9	2525,1	1.400	BBB0W000
EB115B675323200N	32	32,6	40,8	2609,3	1.300	BBB0W000

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

EB115B675330200N	2	12,2	17,7	542,2	2.000	BA4W000
EB115B675330300N	3	13,8	19,3	628,4	2.000	BA4W000
EB115B675330400N	4	14,3	19,8	674,6	2.000	BA6W000
EB115B675330500N	5	15,6	21,3	761,9	2.000	BA6W000
EB115B675330600N	6	16,1	21,8	818,1	2.000	BA6W000
EB115B675331000N	10	20,1	26,7	1264,6	2.000	BB0W000
EB115B675331200N	12	21,9	28,7	1416,0	2.000	BB0W000
EB115B675331500N	15	24,3	31,3	1639,9	2.000	BB0W000
EB115B675331800N	18	26,5	33,5	1833,4	1.900	BBB0W000
EB115B675332000N	20	27,7	34,7	1959,9	1.900	BBB0W000
EB115B675332400N	24	30,2	38,4	2511,4	1.400	BBB0W000
EB115B675333000N	30	33,7	41,9	2892,7	1.200	BBB0W000
EB115B675333200N	32	34,7	43,1	3040,1	1.200	BBB0W000

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

EB115B6A0120200N	2	11,5	16,3	411,0	2.000	BA4W000
EB115B6A0120300N	3	13,2	18,7	597,1	2.000	BA4W000
EB115B6A0120400N	4	13,7	19,2	650,9	2.000	BA4W000
EB115B6A0120500N	5	14,7	20,4	719,2	2.000	BA6W000
EB115B6A0120600N	6	15,4	21,1	779,1	2.000	BA6W000
EB115B6A0121000N	10	19,2	25,8	1202,4	2.000	BA8W000
EB115B6A0121200N	12	20,9	27,7	1347,8	2.000	BB0W000
EB115B6A0121500N	15	23,2	30,0	1549,7	2.000	BB0W000
EB115B6A0121800N	18	25,1	32,1	1724,5	2.000	BBB0W000
EB115B6A0122000N	20	26,4	33,4	1854,7	1.900	BBB0W000
EB115B6A0122400N	24	28,8	36,0	2108,0	1.600	BBB0W000
EB115B6A0123000N	30	31,9	40,1	2722,5	1.300	BBB0W000
EB115B6A0123200N	32	32,8	41,0	2844,3	1.300	BBB0W000

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

EB115B6A0130200N	2	12,3	17,8	562,8	2.000	BA4W000
EB115B6A0130300N	3	13,9	19,4	658,8	2.000	BA4W000
EB115B6A0130400N	4	14,4	19,9	714,7	2.000	BA6W000
EB115B6A0130500N	5	15,7	21,4	821,5	2.000	BA6W000
EB115B6A0130600N	6	16,2	21,9	877,9	2.000	BA6W000
EB115B6A0131000N	10	20,3	26,9	1365,9	2.000	BB0W000
EB115B6A0131200N	12	22,1	28,9	1551,6	2.000	BB0W000
EB115B6A0131500N	15	24,5	31,5	1789,2	2.000	BB0W000
EB115B6A0131800N	18	26,7	33,7	2027,8	1.900	BBB0W000
EB115B6A0132000N	20	28,0	35,2	2175,7	1.800	BBB0W000
EB115B6A0132400N	24	30,5	38,7	2750,5	1.400	BBB0W000
EB115B6A0133000N	30	34,0	42,2	3215,2	1.200	BBB0W000
EB115B6A0133200N	32	34,9	43,3	3356,1	1.200	BBB0W000

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

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

EB115B6A5220200N	2	13,3	18,8	601,3	2.000	BA4W000
EB115B6A5220300N	3	15,0	20,7	707,7	2.000	BA6W000
EB115B6A5220400N	4	15,8	21,5	780,4	2.000	BA6W000
EB115B6A5220500N	5	17,0	22,7	863,4	2.000	BA6W000
EB115B6A5220600N	6	17,8	23,7	947,8	2.000	BA6W000
EB115B6A5221000N	10	22,3	29,1	1469,3	2.000	BB0W000
EB115B6A5221200N	12	24,3	31,3	1660,0	2.000	BB0W000
EB115B6A5221500N	15	26,9	33,9	1903,4	1.900	BBBW000
EB115B6A5221800N	18	29,3	36,5	2162,1	1.600	BBBW000
EB115B6A5222000N	20	30,7	38,9	2583,8	1.400	BBBW000
EB115B6A5222400N	24	33,4	41,6	2919,7	1.300	BBBW000
EB115B6A5223000N	30	37,2	45,6	3411,3	1.000	BBBW000

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

EB115B6A5230200N	2	14,0	19,5	652,7	2.000	BA4W000
EB115B6A5230300N	3	16,1	21,8	804,1	2.000	BA6W000
EB115B6A5230400N	4	16,7	22,4	878,6	2.000	BA6W000
EB115B6A5230500N	5	18,2	24,8	1156,1	2.000	BA8W000
EB115B6A5230600N	6	18,8	25,4	1237,2	2.000	BA8W000
EB115B6A5231000N	10	23,8	30,6	1714,2	2.000	BB0W000
EB115B6A5231200N	12	25,7	32,7	1933,3	2.000	BBBW000
EB115B6A5231500N	15	28,7	35,9	2258,2	1.600	BBBW000
EB115B6A5231800N	18	31,0	39,2	2841,9	1.400	BBBW000
EB115B6A5232000N	20	32,7	40,9	3066,0	1.300	BBBW000
EB115B6A5232400N	24	35,6	44,0	3471,1	1.100	BBBW000

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

EB115B6B5220200N	2	14,8	20,5	694,4	2.000	BA6W000
EB115B6B5220300N	3	17,1	22,8	841,7	2.000	BA6W000
EB115B6B5220400N	4	18,0	24,6	1089,6	2.000	BA8W000
EB115B6B5220500N	5	19,3	25,9	1212,8	2.000	BA8W000
EB115B6B5220600N	6	20,0	26,6	1297,6	2.000	BA8W000
EB115B6B5221000N	10	25,3	32,3	1820,3	2.000	BBBW000
EB115B6B5221200N	12	27,6	34,6	2042,6	1.900	BBBW000
EB115B6B5221500N	15	30,6	38,8	2673,6	1.400	BBBW000
EB115B6B5221800N	18	33,3	41,5	3003,0	1.300	BBBW000
EB115B6B5222000N	20	35,1	43,5	3254,8	1.200	BBBW000
EB115B6B5222400N	24	38,2	46,8	3701,7	1.000	BBBW000

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

EB115B6B5230200N	2	15,9	21,6	793,0	2.000	BA6W000
EB115B6B5230300N	3	18,3	24,9	1129,1	2.000	BA8W000
EB115B6B5230400N	4	19,0	25,6	1240,9	2.000	BA8W000
EB115B6B5230500N	5	20,7	27,3	1418,2	2.000	BB0W000
EB115B6B5230600N	6	21,4	28,2	1543,2	2.000	BB0W000
EB115B6B5231000N	10	27,0	34,0	2167,5	1.900	BBBW000
EB115B6B5231200N	12	29,4	36,6	2479,0	1.600	BBBW000
EB115B6B5231500N	15	32,6	40,8	3191,1	1.300	BBBW000
EB115B6B5231800N	18	35,6	44,0	3652,5	1.100	BBBW000

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