

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



Flame
Retardant



Fire
Retardant



EM
Interferences
Resistant



UV Resistant



ROHS
Compliant

STANDARDS

Gen. to 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:** XLPE Polyethylene, acc to EN 50590-2-29
- **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:** PVC, acc. to EN 50290-2-22, type TM51. Blue or Black.
- **Armour:** Single layer of Galvanized Steel Wire Armouring (GSA), applied spirally over the PVC 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)	0,5mm 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 / +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 60332-3-24 / IEC 60332-3-24					

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

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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

EB117B050120200N	2	9,8	14,4	345,6	2.000	BA3W000
EB117B050120300N	3	11,2	15,8	408,1	2.000	BA4W000
EB117B050120400N	4	11,7	16,5	449,7	2.000	BA4W000
EB117B050120500N	5	12,7	18,2	606,5	2.000	BA4W000
EB117B050120600N	6	13,1	18,6	639,5	2.000	BA4W000
EB117B050121000N	10	16,3	22,0	845,2	2.000	BA6W000
EB117B050121200N	12	17,8	23,7	957,9	2.000	BA6W000
EB117B050121500N	15	19,5	26,1	1226,6	2.000	BA8W000
EB117B050121800N	18	21,0	27,8	1364,2	2.000	BB0W000
EB117B050122000N	20	22,2	29,0	1474,7	2.000	BB0W000
EB117B050122400N	24	24,2	31,2	1665,5	2.000	BB0W000
EB117B050123000N	30	26,8	33,8	1907,2	1.900	BBBW000
EB117B050123200N	32	27,8	34,8	2003,3	1.600	BBBW000
EB117B050125000N	50	34,1	42,5	3024,4	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

EB117B050130200N	2	10,3	14,9	373,8	2.000	BA3W000
EB117B050130300N	3	11,8	16,6	451,6	2.000	BA4W000
EB117B050130400N	4	12,4	17,9	600,6	2.000	BA4W000
EB117B050130500N	5	13,3	18,8	665,1	2.000	BA4W000
EB117B050130600N	6	13,8	19,3	705,7	2.000	BA4W000
EB117B050131000N	10	17,2	22,9	940,4	2.000	BA6W000
EB117B050131200N	12	18,7	25,3	1221,7	2.000	BA8W000
EB117B050131500N	15	20,5	27,1	1369,9	2.000	BB0W000
EB117B050131800N	18	22,4	29,2	1556,7	2.000	BB0W000
EB117B050132000N	20	23,6	30,4	1665,5	2.000	BB0W000
EB117B050132400N	24	25,5	32,5	1872,2	1.900	BBBW000
EB117B050133000N	30	28,5	35,7	2203,5	1.600	BBBW000
EB117B050133200N	32	29,3	36,5	2298,7	1.600	BBBW000
EB117B050135000N	50	36,0	44,4	3456,7	1.000	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

EB117B050320200N	2	10,5	15,1	368,5	2.000	BA3W000
EB117B050320300N	3	12,3	17,8	556,0	2.000	BA4W000
EB117B050320400N	4	12,7	18,2	589,2	2.000	BA4W000
EB117B050320500N	5	13,6	19,1	637,9	2.000	BA4W000
EB117B050320600N	6	14,1	19,6	682,0	2.000	BA4W000
EB117B050321000N	10	17,8	23,7	923,9	2.000	BA6W000
EB117B050321200N	12	19,1	25,7	1169,2	2.000	BA8W000
EB117B050321500N	15	21,0	27,8	1313,1	2.000	BB0W000
EB117B050321800N	18	23,1	29,9	1481,4	2.000	BB0W000
EB117B050322000N	20	24,2	31,2	1597,4	2.000	BB0W000
EB117B050322400N	24	26,3	33,3	1779,4	1.900	BBBW000
EB117B050323000N	30	29,2	36,4	2046,8	1.400	BB0W000
EB117B050323200N	32	30,0	37,2	2129,6	1.300	BB0W000
EB117B050325000N	50	37,1	45,5	3210,0	900	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

EB117B050330200N	2	11,2	15,8	403,2	2.000	BA4W000
EB117B050330300N	3	12,9	18,4	601,9	2.000	BA4W000
EB117B050330400N	4	13,4	18,9	642,8	2.000	BA4W000
EB117B050330500N	5	14,3	19,8	698,0	2.000	BA6W000
EB117B050330600N	6	14,8	20,5	748,4	2.000	BA6W000
EB117B050331000N	10	18,7	25,3	1175,2	2.000	BA8W000
EB117B050331200N	12	20,2	26,8	1293,8	2.000	BB0W000
EB117B050331500N	15	22,4	29,2	1487,0	2.000	BB0W000
EB117B050331800N	18	24,4	31,4	1679,9	2.000	BB0W000
EB117B050332000N	20	25,5	32,5	1779,3	1.900	BBBW000
EB117B050332400N	24	28,0	35,2	2037,7	1.600	BBBW000
EB117B050333000N	30	30,8	39,0	2629,0	1.300	BBBW000
EB117B050333200N	32	31,9	40,1	2736,7	1.200	BB0W000

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EB117B0-Ed2

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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

EB117B075320200N	2	11,4	16,2	413,0	2.000	BA4W000
EB117B075320300N	3	13,1	18,6	597,1	2.000	BA4W000
EB117B075320400N	4	13,6	19,1	635,6	2.000	BA4W000
EB117B075320500N	5	14,6	20,3	708,6	2.000	BA6W000
EB117B075320600N	6	15,3	21,0	765,5	2.000	BA6W000
EB117B075321000N	10	19,1	25,7	1172,7	2.000	BA8W000
EB117B075321200N	12	20,6	27,2	1287,7	2.000	BB0W000
EB117B075321500N	15	23,1	29,9	1486,7	2.000	BB0W000
EB117B075321800N	18	24,9	31,9	1660,6	1.900	BB0W000
EB117B075322000N	20	26,3	33,3	1786,5	1.900	BBB0W000
EB117B075322400N	24	28,6	35,8	2006,6	1.400	BB0W000
EB117B075323000N	30	31,7	39,9	2611,0	1.200	BB0W000
EB117B075323200N	32	32,6	40,8	2697,8	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

EB117B075330200N	2	12,2	17,7	561,1	2.000	BA4W000
EB117B075330300N	3	13,8	19,3	650,0	2.000	BA4W000
EB117B075330400N	4	14,3	19,8	697,1	2.000	BA6W000
EB117B075330500N	5	15,6	21,3	788,8	2.000	BA6W000
EB117B075330600N	6	16,1	21,8	845,8	2.000	BA6W000
EB117B075331000N	10	20,1	26,7	1302,7	2.000	BB0W000
EB117B075331200N	12	21,9	28,7	1461,0	2.000	BB0W000
EB117B075331500N	15	24,3	31,3	1693,8	2.000	BB0W000
EB117B075331800N	18	26,5	33,5	1896,4	1.800	BBB0W000
EB117B075332000N	20	27,9	35,1	2056,7	1.600	BBB0W000
EB117B075332400N	24	30,2	38,4	2588,3	1.300	BB0W000
EB117B075333000N	30	33,7	41,9	2989,1	1.100	BBB0W000
EB117B075333200N	32	34,7	43,1	3139,5	1.000	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

EB117B0A0120200N	2	11,5	16,3	427,1	2.000	BA4W000
EB117B0A0120300N	3	13,2	18,7	617,7	2.000	BA4W000
EB117B0A0120400N	4	13,7	19,2	672,3	2.000	BA4W000
EB117B0A0120500N	5	14,7	20,4	742,3	2.000	BA6W000
EB117B0A0120600N	6	15,4	21,1	805,6	2.000	BA6W000
EB117B0A0121000N	10	19,2	25,8	1238,8	2.000	BA8W000
EB117B0A0121200N	12	20,7	27,3	1366,9	2.000	BB0W000
EB117B0A0121500N	15	23,2	30,0	1601,2	2.000	BB0W000
EB117B0A0121800N	18	25,1	32,1	1780,4	1.900	BB0W000
EB117B0A0122000N	20	26,4	33,4	1917,7	1.900	BBB0W000
EB117B0A0122400N	24	28,8	36,0	2181,3	1.400	BB0W000
EB117B0A0123000N	30	31,9	40,1	2809,0	1.200	BB0W000
EB117B0A0123200N	32	32,8	41,0	2933,3	1.200	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

EB117B0A0130200N	2	12,3	17,8	581,9	2.000	BA4W000
EB117B0A0130300N	3	13,9	19,4	680,6	2.000	BA4W000
EB117B0A0130400N	4	14,4	19,9	737,3	2.000	BA6W000
EB117B0A0130500N	5	15,7	21,4	848,6	2.000	BA6W000
EB117B0A0130600N	6	16,2	21,9	905,8	2.000	BA6W000
EB117B0A0131000N	10	20,3	26,9	1404,5	2.000	BB0W000
EB117B0A0131200N	12	22,1	28,9	1597,1	2.000	BB0W000
EB117B0A0131500N	15	24,5	31,5	1843,6	2.000	BB0W000
EB117B0A0131800N	18	26,7	33,7	2091,4	1.800	BBB0W000
EB117B0A0132000N	20	28,2	35,4	2273,1	1.600	BBB0W000
EB117B0A0132400N	24	30,5	38,7	2828,1	1.300	BBB0W000
EB117B0A0133000N	30	34,0	42,2	3312,5	1.100	BBB0W000
EB117B0A0133200N	32	34,9	43,3	3456,2	1.000	BB0W000

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(XLPE / ISCR / OSCr / PVC / SWA / PVC) RE-2X(St)YSWAY -p/tIMF -fl

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

EB117B0A5220200N	2	13,3	18,8	622,1	2.000	BA4W000
EB117B0A5220300N	3	15,0	20,7	731,3	2.000	BA6W000
EB117B0A5220400N	4	15,8	21,5	807,7	2.000	BA6W000
EB117B0A5220500N	5	17,0	22,7	892,9	2.000	BA6W000
EB117B0A5220600N	6	17,8	23,7	981,4	2.000	BA6W000
EB117B0A5221000N	10	22,3	29,1	1515,3	2.000	BB0W000
EB117B0A5221200N	12	24,3	31,3	1714,1	2.000	BB0W000
EB117B0A5221500N	15	26,9	33,9	1967,6	1.800	BBB0W00
EB117B0A5221800N	18	29,3	36,5	2236,8	1.400	BB0W000
EB117B0A5222000N	20	30,7	38,9	2662,2	1.300	BBB0W00
EB117B0A5222400N	24	33,4	41,6	3010,4	1.100	BB0W000
EB117B0A5223000N	30	37,2	45,6	3524,2	900	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

EB117B0A5230200N	2	14,0	19,5	674,6	2.000	BA4W000
EB117B0A5230300N	3	16,1	21,8	831,9	2.000	BA6W000
EB117B0A5230400N	4	16,7	22,4	907,5	2.000	BA6W000
EB117B0A5230500N	5	18,2	24,1	1041,8	2.000	BA6W000
EB117B0A5230600N	6	18,8	25,4	1272,8	2.000	BA8W000
EB117B0A5231000N	10	23,8	30,6	1767,0	2.000	BB0W000
EB117B0A5231200N	12	25,7	32,7	1990,5	1.900	BBB0W00
EB117B0A5231500N	15	28,7	35,9	2331,1	1.600	BBB0W00
EB117B0A5231800N	18	31,0	39,2	2921,0	1.300	BBB0W00
EB117B0A5232000N	20	32,7	40,9	3154,6	1.200	BB0W000
EB117B0A5232400N	24	35,6	44,0	3573,3	1.000	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

EB117B0B5220200N	2	14,8	20,5	717,7	2.000	BA6W000
EB117B0B5220300N	3	17,1	22,8	871,4	2.000	BA6W000
EB117B0B5220400N	4	18,0	23,9	981,2	2.000	BA6W000
EB117B0B5220500N	5	19,3	25,9	1249,5	2.000	BA8W000
EB117B0B5220600N	6	20,0	26,6	1335,6	2.000	BA8W000
EB117B0B5221000N	10	25,3	32,3	1876,8	1.900	BBB0W00
EB117B0B5221200N	12	27,8	34,8	2138,9	1.600	BBB0W00
EB117B0B5221500N	15	30,6	38,8	2751,8	1.300	BBB0W00
EB117B0B5221800N	18	33,3	41,5	3093,5	1.200	BBB0W00
EB117B0B5222000N	20	35,1	43,5	3355,8	1.100	BBB0W00
EB117B0B5222400N	24	38,2	46,8	3817,8	800	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

EB117B0B5230200N	2	15,9	21,6	820,5	2.000	BA6W000
EB117B0B5230300N	3	18,3	24,2	1015,2	2.000	BA6W000
EB117B0B5230400N	4	19,0	25,6	1276,9	2.000	BA8W000
EB117B0B5230500N	5	20,5	27,1	1433,8	2.000	BB0W000
EB117B0B5230600N	6	21,2	28,0	1575,7	2.000	BB0W000
EB117B0B5231000N	10	27,0	34,0	2231,9	1.800	BBB0W00
EB117B0B5231200N	12	29,4	36,6	2553,8	1.400	BB0W000
EB117B0B5231500N	15	32,6	40,8	3279,4	1.200	BB0W000
EB117B0B5231800N	18	35,6	44,0	3754,7	1.000	BB0W000

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