

OVERALL SCREENED, SWA ARMoured, INSTRUMENTATION CABLE.

(XLPE / OSCR / PVC / SWA / PVC)

RE-2X(St)YSWAY -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)

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:** 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.
- **Inner Sheath:** PVC, acc. to EN 50290-2-22, type TM51. 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)	0,5mm 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 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	0,5mm 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.

² Except 1-pair and 2-pair cables

³ Including 1-pair and 2-pair cables.

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EB113B0-Ed1

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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

EB113B050120100N	1	5,9	10,3	210,6	2.000	BA0W000
EB113B050140100N	2	6,6	11,0	240,2	2.000	BA0W000
EB113B050120300N	3	9,4	14,0	337,1	2.000	BA2W000
EB113B050120400N	4	10,3	14,9	374,1	2.000	BA3W000
EB113B050120500N	5	11,2	15,8	415,4	2.000	BA4W000
EB113B050120600N	6	11,8	16,6	452,1	2.000	BA4W000
EB113B050121000N	10	13,7	19,2	680,5	2.000	BA4W000
EB113B050121200N	12	14,2	19,7	721,2	2.000	BA4W000
EB113B050121500N	15	14,9	20,6	795,9	2.000	BA6W000
EB113B050121800N	18	16,5	22,2	898,5	2.000	BA6W000
EB113B050122000N	20	17,5	23,2	962,7	2.000	BA6W000
EB113B050122400N	24	18,8	25,4	1225,3	2.000	BA8W000
EB113B050123000N	30	20,7	27,3	1391,2	2.000	BB0W000
EB113B050123200N	32	21,2	28,0	1451,9	2.000	BB0W000
EB113B050125000N	50	26,3	33,3	1956,6	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

EB113B050130100N	1	6,2	10,6	224,9	2.000	BA0W000
EB113B050130300N	3	10,5	15,1	387,5	2.000	BA3W000
EB113B050130400N	4	11,7	16,5	451,0	2.000	BA4W000
EB113B050130500N	5	13,0	18,5	621,4	2.000	BA4W000
EB113B050130600N	6	12,2	17,7	611,6	2.000	BA4W000
EB113B050131000N	10	14,9	20,6	795,9	2.000	BA6W000
EB113B050131200N	12	16,2	21,9	885,1	2.000	BA6W000
EB113B050131500N	15	18,0	23,9	1021,5	2.000	BA6W000
EB113B050131800N	18	19,4	26,0	1287,1	2.000	BA8W000
EB113B050132000N	20	20,3	26,9	1369,9	2.000	BB0W000
EB113B050132400N	24	22,1	28,9	1555,6	2.000	BB0W000
EB113B050133000N	30	24,5	31,5	1791,8	2.000	BB0W000
EB113B050133200N	32	25,2	32,2	1872,0	1.900	BBBW000
EB113B050135000N	50	31,0	39,2	2816,4	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

EB113B050320100N	1	6,3	10,7	219,7	2.000	BA0W000
EB113B050340100N	2	7,1	11,5	255,3	2.000	BA0W000
EB113B050320300N	3	10,3	14,9	361,8	2.000	BA3W000
EB113B050320400N	4	11,5	16,3	418,9	2.000	BA4W000
EB113B050320500N	5	12,5	18,0	574,8	2.000	BA4W000
EB113B050320600N	6	13,1	18,6	604,3	2.000	BA4W000
EB113B050321000N	10	15,0	20,7	735,2	2.000	BA6W000
EB113B050321200N	12	15,8	21,5	795,9	2.000	BA6W000
EB113B050321500N	15	16,6	22,3	863,4	2.000	BA6W000
EB113B050321800N	18	18,4	25,0	1130,2	2.000	BA8W000
EB113B050322000N	20	19,2	25,8	1198,1	2.000	BA8W000
EB113B050322400N	24	20,8	27,4	1319,3	2.000	BB0W000
EB113B050323000N	30	23,2	30,0	1540,0	2.000	BB0W000
EB113B050323200N	32	23,9	30,9	1605,9	2.000	BB0W000
EB113B050325000N	50	29,3	36,5	2133,0	1.600	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

EB113B050330100N	1	6,6	11,0	234,1	2.000	BA0W000
EB113B050330300N	3	11,7	16,5	432,6	2.000	BA4W000
EB113B050330400N	4	12,9	18,4	601,9	2.000	BA4W000
EB113B050330500N	5	14,1	19,6	664,0	2.000	BA4W000
EB113B050330600N	6	13,3	18,8	654,3	2.000	BA4W000
EB113B050331000N	10	16,5	22,2	862,2	2.000	BA6W000
EB113B050331200N	12	18,0	23,9	966,5	2.000	BA6W000
EB113B050331500N	15	19,8	26,4	1253,8	2.000	BA8W000
EB113B050331800N	18	21,3	28,1	1393,0	2.000	BB0W000
EB113B050332000N	20	22,5	29,3	1488,8	2.000	BB0W000
EB113B050332400N	24	24,5	31,5	1681,9	1.900	BB0W000
EB113B050333000N	30	27,4	34,4	1958,3	1.600	BB0W000
EB113B050333200N	32	28,2	35,4	2057,4	1.400	BB0W000

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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
EB113B075320100N	1	6,7	11,1	237,7	2.000	BA0W000
EB113B075340100N	2	7,6	12,2	283,9	2.000	BA2W000
EB113B075320300N	3	11,3	16,1	415,9	2.000	BA4W000
EB113B075320400N	4	12,7	18,2	580,4	2.000	BA4W000
EB113B075320500N	5	13,6	19,1	626,9	2.000	BA4W000
EB113B075320600N	6	14,3	19,8	671,2	2.000	BA6W000
EB113B075321000N	10	16,6	22,3	839,7	2.000	BA6W000
EB113B075321200N	12	17,5	23,2	910,7	2.000	BA6W000
EB113B075321500N	15	18,4	25,0	1151,7	2.000	BA8W000
EB113B075321800N	18	20,2	26,8	1289,4	2.000	BB0W000
EB113B075322000N	20	21,1	27,9	1380,6	2.000	BB0W000
EB113B075322400N	24	23,2	30,0	1559,1	2.000	BB0W000
EB113B075323000N	30	25,5	32,5	1771,9	1.900	BBB0W000
EB113B075323200N	32	26,4	33,4	1861,6	1.600	BB0W000
EB113B075325000N	50	32,4	40,6	2791,8	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
EB113B075330100N	1	7,1	11,5	255,0	2.000	BA0W000
EB113B075330300N	3	12,8	18,3	589,9	2.000	BA4W000
EB113B075330400N	4	14,0	19,5	658,0	2.000	BA4W000
EB113B075330500N	5	15,6	21,3	756,4	2.000	BA6W000
EB113B075330600N	6	14,5	20,0	733,2	2.000	BA6W000
EB113B075331000N	10	18,3	24,2	1001,7	2.000	BA6W000
EB113B075331200N	12	19,7	26,3	1266,7	2.000	BA8W000
EB113B075331500N	15	21,8	28,6	1456,8	2.000	BB0W000
EB113B075331800N	18	23,8	30,6	1633,9	2.000	BB0W000
EB113B075332000N	20	24,9	31,9	1746,8	1.900	BB0W000
EB113B075332400N	24	27,3	34,3	1985,3	1.600	BB0W000
EB113B075333000N	30	30,1	38,3	2556,4	1.300	BB0W000
EB113B075333200N	32	30,9	39,1	2669,6	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
EB113B0A0120100N	1	6,8	11,2	245,1	2.000	BA0W000
EB113B0A0140100N	2	7,7	12,3	297,9	2.000	BA2W000
EB113B0A0120300N	3	11,4	16,2	436,4	2.000	BA4W000
EB113B0A0120400N	4	12,8	18,3	607,5	2.000	BA4W000
EB113B0A0120500N	5	13,7	19,2	670,2	2.000	BA4W000
EB113B0A0120600N	6	14,4	19,9	711,2	2.000	BA6W000
EB113B0A0121000N	10	16,7	22,4	905,7	2.000	BA6W000
EB113B0A0121200N	12	17,6	23,5	1000,6	2.000	BA6W000
EB113B0A0121500N	15	18,5	25,1	1250,2	2.000	BA8W000
EB113B0A0121800N	18	20,3	26,9	1408,6	2.000	BB0W000
EB113B0A0122000N	20	21,3	28,1	1513,1	2.000	BB0W000
EB113B0A0122400N	24	23,4	30,2	1717,6	2.000	BB0W000
EB113B0A0123000N	30	25,7	32,7	1985,2	1.900	BBB0W000
EB113B0A0123200N	32	26,6	33,6	2072,2	1.600	BB0W000
EB113B0A0125000N	50	32,7	40,9	3145,7	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
EB113B0A0130100N	1	7,1	11,5	264,7	2.000	BA0W000
EB113B0A0130300N	3	12,9	18,4	629,9	2.000	BA4W000
EB113B0A0130400N	4	14,1	19,6	707,7	2.000	BA4W000
EB113B0A0130500N	5	15,7	21,4	815,9	2.000	BA6W000
EB113B0A0130600N	6	14,6	20,3	802,0	2.000	BA6W000
EB113B0A0131000N	10	18,4	25,0	1248,9	2.000	BA8W000
EB113B0A0131200N	12	19,9	26,5	1386,1	2.000	BA8W000
EB113B0A0131500N	15	22,0	28,8	1605,6	2.000	BB0W000
EB113B0A0131800N	18	24,0	31,0	1826,2	2.000	BB0W000
EB113B0A0132000N	20	25,1	32,1	1944,3	1.900	BB0W000
EB113B0A0132400N	24	27,5	34,5	2221,9	1.600	BB0W000
EB113B0A0133000N	30	30,3	38,5	2876,1	1.300	BBB0W000
EB113B0A0133200N	32	31,2	39,4	2985,9	1.200	BB0W000

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(XLPE / OSCR / PVC / SWA / PVC)

RE-2X(St)YSWAY -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
EB113B0A5220100N	1	7,7	12,3	285,9	2.000	BA2W000
EB113B0A5240100N	2	8,8	13,4	351,6	2.000	BA2W000
EB113B0A5220300N	3	13,5	19,0	645,2	2.000	BA4W000
EB113B0A5220400N	4	14,9	20,6	743,9	2.000	BA6W000
EB113B0A5220500N	5	16,2	21,9	829,5	2.000	BA6W000
EB113B0A5220600N	6	17,1	22,8	894,5	2.000	BA6W000
EB113B0A5221000N	10	19,9	26,5	1311,9	2.000	BA8W000
EB113B0A5221200N	12	20,8	27,4	1425,5	2.000	BB0W000
EB113B0A5221500N	15	22,1	28,9	1615,6	2.000	BB0W000
EB113B0A5221800N	18	24,5	31,5	1841,1	2.000	BB0W000
EB113B0A5222000N	20	25,6	32,6	1958,3	1.900	BBB0W000
EB113B0A5222400N	24	28,1	35,3	2252,4	1.600	BBB0W000
EB113B0A5223000N	30	30,9	39,1	2896,9	1.300	BBB0W000
EB113B0A5223200N	32	32,0	40,2	3022,4	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
EB113B0A5230100N	1	8,1	12,7	312,1	2.000	BA2W000
EB113B0A5230300N	3	15,0	20,7	762,3	2.000	BA6W000
EB113B0A5230400N	4	16,7	22,4	879,7	2.000	BA6W000
EB113B0A5230500N	5	18,5	25,1	1159,8	2.000	BA8W000
EB113B0A5230600N	6	17,5	23,2	1018,9	2.000	BA6W000
EB113B0A5231000N	10	21,9	28,7	1596,9	2.000	BB0W000
EB113B0A5231200N	12	23,9	30,9	1816,0	2.000	BB0W000
EB113B0A5231500N	15	26,4	33,4	2098,7	1.900	BBB0W000
EB113B0A5231800N	18	28,8	36,0	2398,5	1.400	BB0W000
EB113B0A5232000N	20	30,1	38,3	2833,7	1.300	BB0W000
EB113B0A5232400N	24	32,8	41,0	3222,9	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
EB113B0B5220100N	1	8,6	13,2	329,6	2.000	BA2W000
EB113B0B5240100N	2	9,9	14,5	421,8	2.000	BA3W000
EB113B0B5220300N	3	15,6	21,3	792,3	2.000	BA6W000
EB113B0B5220400N	4	17,5	23,2	925,3	2.000	BA6W000
EB113B0B5220500N	5	18,8	25,4	1191,1	2.000	BA8W000
EB113B0B5220600N	6	19,9	26,5	1291,3	2.000	BA8W000
EB113B0B5221000N	10	23,2	30,0	1695,5	2.000	BB0W000
EB113B0B5221200N	12	24,3	31,3	1865,4	2.000	BB0W000
EB113B0B5221500N	15	25,6	32,6	2078,2	1.900	BBB0W000
EB113B0B5221800N	18	28,6	35,8	2420,4	1.600	BBB0W000
EB113B0B5222000N	20	30,0	37,2	2598,7	1.400	BB0W000
EB113B0B5222400N	24	32,6	40,8	3249,5	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
EB113B0B5230100N	1	9,1	13,7	371,6	2.000	BA2W000
EB113B0B5230300N	3	17,5	23,2	952,1	2.000	BA6W000
EB113B0B5230400N	4	19,2	25,8	1266,0	2.000	BA8W000
EB113B0B5230500N	5	21,1	27,9	1449,6	2.000	BB0W000
EB113B0B5230600N	6	20,1	26,7	1470,7	2.000	BB0W000
EB113B0B5231000N	10	25,4	32,4	2075,0	1.900	BBB0W000
EB113B0B5231200N	12	27,9	35,1	2392,7	1.600	BBB0W000
EB113B0B5231500N	15	30,7	38,9	3048,5	1.300	BBB0W000
EB113B0B5231800N	18	33,4	41,6	3473,9	1.100	BB0W000

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