

OVERALL SCREENED, SWA ARMoured, INSTRUMENTATION CABLE.

(PVC / OSCR / PVC / SWA / PVC)

RE-Y(St)YSWAY -fl



Flame Retardant



Fire Retardant



EM Interferences Resistant



UV Resistant



ROHS Compliant

STANDARDS

BS/PAS 5308 Part 2 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:** PVC grade TI51, acc to EN 50590-2-21
- **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 2	100					
Mutual Capacitance (nF/km, 800 Hz). Max. For OSCR cables ²			140			160
Mutual Capacitance (nF/km, 800 Hz). Max. For ISCR cables ³			180			200
Inductance to Resistance Ratio (L/R) (mH/Ω). Max.			25			60
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					
Flame Propagation	UNE-EN 60332-1-2 / IEC 60332-1-2					
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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SIZE, DIMENSIONS AND WEIGHTS

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

EB112B050320100N	1	6,3	10,7	222,5	2.000	BA0W000
EB112B050340100N	2	7,1	11,5	260,9	2.000	BA0W000
EB112B050320300N	3	10,3	14,9	370,2	2.000	BA3W000
EB112B050320400N	4	11,5	16,3	430,1	2.000	BA4W000
EB112B050320500N	5	12,5	18,0	588,8	2.000	BA4W000
EB112B050320600N	6	13,1	18,6	621,0	2.000	BA4W000
EB112B050321000N	10	15,0	20,7	763,1	2.000	BA6W000
EB112B050321200N	12	15,8	21,5	829,3	2.000	BA6W000
EB112B050321500N	15	16,6	22,3	905,2	2.000	BA6W000
EB112B050321800N	18	18,4	25,0	1180,4	2.000	BA8W000
EB112B050322000N	20	19,2	25,8	1253,8	2.000	BA8W000
EB112B050322400N	24	20,8	27,4	1386,1	2.000	BB0W000
EB112B050323000N	30	23,2	30,0	1623,6	2.000	BB0W000
EB112B050323200N	32	23,9	30,9	1695,1	2.000	BB0W000
EB112B050325000N	50	29,3	36,5	2272,3	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

EB112B050330100N	1	6,6	11,0	238,2	2.000	BA0W000
EB112B050330300N	3	11,7	16,5	445,1	2.000	BA4W000
EB112B050330400N	4	12,9	18,4	618,6	2.000	BA4W000
EB112B050330500N	5	14,1	19,6	684,9	2.000	BA4W000
EB112B050330600N	6	13,3	18,8	679,4	2.000	BA4W000
EB112B050331000N	10	16,5	22,2	904,0	2.000	BA6W000
EB112B050331200N	12	18,0	23,9	1016,6	2.000	BA6W000
EB112B050331500N	15	19,8	26,4	1316,4	2.000	BA8W000
EB112B050331800N	18	21,3	28,1	1468,2	2.000	BB0W000
EB112B050332000N	20	22,5	29,3	1572,4	2.000	BB0W000
EB112B050332400N	24	24,5	31,5	1782,2	1.900	BB0W000
EB112B050333000N	30	27,4	34,4	2083,7	1.600	BB0W000
EB112B050333200N	32	28,2	35,4	2191,2	1.400	BB0W000

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

EB112B075320100N	1	6,7	11,1	240,9	2.000	BA0W000
EB112B075340100N	2	7,6	12,2	290,3	2.000	BA2W000
EB112B075320300N	3	11,3	16,1	425,5	2.000	BA4W000
EB112B075320400N	4	12,7	18,2	593,2	2.000	BA4W000
EB112B075320500N	5	13,6	19,1	642,9	2.000	BA4W000
EB112B075320600N	6	14,3	19,8	690,4	2.000	BA6W000
EB112B075321000N	10	16,6	22,3	871,6	2.000	BA6W000
EB112B075321200N	12	17,5	23,2	949,1	2.000	BA6W000
EB112B075321500N	15	18,4	25,0	1199,6	2.000	BA8W000
EB112B075321800N	18	20,2	26,8	1346,9	2.000	BB0W000
EB112B075322000N	20	21,1	27,9	1444,6	2.000	BB0W000
EB112B075322400N	24	23,2	30,0	1635,8	2.000	BB0W000
EB112B075323000N	30	25,5	32,5	1867,8	1.900	BBB0000
EB112B075323200N	32	26,4	33,4	1963,9	1.600	BB0W000
EB112B075325000N	50	32,4	40,6	2951,6	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

EB112B075330100N	1	7,1	11,5	259,7	2.000	BA0W000
EB112B075330300N	3	12,8	18,3	604,3	2.000	BA4W000
EB112B075330400N	4	14,0	19,5	677,2	2.000	BA4W000
EB112B075330500N	5	15,6	21,3	780,4	2.000	BA6W000
EB112B075330600N	6	14,5	20,0	761,9	2.000	BA6W000
EB112B075331000N	10	18,3	24,2	1049,6	2.000	BA6W000
EB112B075331200N	12	19,7	26,3	1324,3	2.000	BA8W000
EB112B075331500N	15	21,8	28,6	1528,8	2.000	BB0W000
EB112B075331800N	18	23,8	30,6	1720,2	2.000	BB0W000
EB112B075332000N	20	24,9	31,9	1842,7	1.900	BB0W000
EB112B075332400N	24	27,3	34,3	2100,5	1.600	BB0W000
EB112B075333000N	30	30,1	38,3	2700,4	1.300	BB0W000
EB112B075333200N	32	30,9	39,1	2823,1	1.200	BB0W000

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EB112B0-Ed2

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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
EB112B0A5220100N	1	7,7	12,3	290,0	2.000	BA2W000
EB112B0A5240100N	2	8,8	13,4	359,9	2.000	BA2W000
EB112B0A5220300N	3	13,5	19,0	657,7	2.000	BA4W000
EB112B0A5220400N	4	14,9	20,6	760,6	2.000	BA6W000
EB112B0A5220500N	5	16,2	21,9	850,3	2.000	BA6W000
EB112B0A5220600N	6	17,1	22,8	919,4	2.000	BA6W000
EB112B0A5221000N	10	19,9	26,5	1353,5	2.000	BA8W000
EB112B0A5221200N	12	20,8	27,4	1475,4	2.000	BB0W000
EB112B0A5221500N	15	22,1	28,9	1678,0	2.000	BB0W000
EB112B0A5221800N	18	24,5	31,5	1916,0	2.000	BB0W000
EB112B0A5222000N	20	25,6	32,6	2041,5	1.900	BBB0W000
EB112B0A5222400N	24	28,1	35,3	2352,2	1.600	BBB0W000
EB112B0A5223000N	30	30,9	39,1	3021,7	1.300	BBB0W000
EB112B0A5223200N	32	32,0	40,2	3155,5	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
EB112B0A5230100N	1	8,1	12,7	318,4	2.000	BA2W000
EB112B0A5230300N	3	15,0	20,7	781,1	2.000	BA6W000
EB112B0A5230400N	4	16,7	22,4	904,7	2.000	BA6W000
EB112B0A5230500N	5	18,5	25,1	1191,0	2.000	BA8W000
EB112B0A5230600N	6	17,5	23,2	1056,3	2.000	BA6W000
EB112B0A5231000N	10	21,9	28,7	1659,3	2.000	BB0W000
EB112B0A5231200N	12	23,9	30,9	1890,9	2.000	BB0W000
EB112B0A5231500N	15	26,4	33,4	2192,3	1.900	BBB0W000
EB112B0A5231800N	18	28,8	36,0	2510,8	1.400	BB0W000
EB112B0A5232000N	20	30,1	38,3	2958,5	1.300	BB0W000
EB112B0A5232400N	24	32,8	41,0	3372,7	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
EB112B0B5220100N	1	8,6	13,2	334,7	2.000	BA2W000
EB112B0B5240100N	2	9,9	14,5	431,9	2.000	BA3W000
EB112B0B5220300N	3	15,6	21,3	807,5	2.000	BA6W000
EB112B0B5220400N	4	17,5	23,2	945,5	2.000	BA6W000
EB112B0B5220500N	5	18,8	25,4	1216,4	2.000	BA8W000
EB112B0B5220600N	6	19,9	26,5	1321,7	2.000	BA8W000
EB112B0B5221000N	10	23,2	30,0	1746,0	2.000	BB0W000
EB112B0B5221200N	12	24,3	31,3	1926,0	2.000	BB0W000
EB112B0B5221500N	15	25,6	32,6	2153,9	1.900	BBB0W000
EB112B0B5221800N	18	28,6	35,8	2511,3	1.600	BBB0W000
EB112B0B5222000N	20	30,0	37,2	2699,7	1.400	BB0W000
EB112B0B5222400N	24	32,6	40,8	3370,7	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
EB112B0B5230100N	1	9,1	13,7	379,2	2.000	BA2W000
EB112B0B5230300N	3	17,5	23,2	974,9	2.000	BA6W000
EB112B0B5230400N	4	19,2	25,8	1296,3	2.000	BA8W000
EB112B0B5230500N	5	21,1	27,9	1487,5	2.000	BB0W000
EB112B0B5230600N	6	20,1	26,7	1516,2	2.000	BB0W000
EB112B0B5231000N	10	25,4	32,4	2150,8	1.900	BBB0W000
EB112B0B5231200N	12	27,9	35,1	2483,7	1.600	BBB0W000
EB112B0B5231500N	15	30,7	38,9	3162,2	1.300	BBB0W000
EB112B0B5231800N	18	33,4	41,6	3610,3	1.100	BB0W000

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