

INDIVIDUAL&OVERALL SCREENED, UNARMoured, INSTRUMENTATION CABLE.

(PE / ISCR / OSCR / PVC)

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

Flame
RetardantEM
Interferences
Resistant

UV Resistant

ROHS
Compliant

STANDARDS

BS/PAS 5308 Part 1 Type 1.

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 indoor and outdoor installation, on racks, trays, in conduits, in dry and wet locations, where mechanical protection is not required; not 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.
- **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 / +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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EB1154A-Ed2

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

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

EB1154A50120200N	2	10,1	10,1	84,2	2.000	BA0W000
EB1154A50120300N	3	11,3	11,3	108,4	2.000	BA0W000
EB1154A50120400N	4	11,8	11,8	129,4	2.000	BA0W000
EB1154A50120500N	5	12,8	12,8	157,6	2.000	BA2W000
EB1154A50120600N	6	13,2	13,2	178,2	2.000	BA2W000
EB1154A50121000N	10	16,4	16,4	275,6	2.000	BA4W000
EB1154A50121200N	12	17,9	17,9	328,3	2.000	BA4W000
EB1154A50121500N	15	19,8	19,8	403,5	2.000	BA6W000
EB1154A50121800N	18	21,3	21,3	470,3	2.000	BA6W000
EB1154A50122000N	20	22,3	22,3	514,1	2.000	BA6W000
EB1154A50122400N	24	24,3	24,3	611,5	2.000	BA6W000
EB1154A50123000N	30	26,9	26,9	752,3	2.000	BB0W000
EB1154A50123200N	32	27,7	27,7	795,6	2.000	BB0W000
EB1154A50125000N	50	34,2	34,2	1221,5	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

EB1154A50130200N	2	10,6	10,6	99,5	2.000	BA0W000
EB1154A50130300N	3	11,9	11,9	130,6	2.000	BA0W000
EB1154A50130400N	4	12,5	12,5	163,3	2.000	BA2W000
EB1154A50130500N	5	13,4	13,4	193,0	2.000	BA2W000
EB1154A50130600N	6	13,9	13,9	220,6	2.000	BA2W000
EB1154A50131000N	10	17,3	17,3	345,3	2.000	BA4W000
EB1154A50131200N	12	18,8	18,8	411,3	2.000	BA4W000
EB1154A50131500N	15	20,8	20,8	508,2	2.000	BA6W000
EB1154A50131800N	18	22,5	22,5	594,6	2.000	BA6W000
EB1154A50132000N	20	23,7	23,7	662,2	2.000	BA6W000
EB1154A50132400N	24	25,8	25,8	787,7	2.000	BA8W000
EB1154A50133000N	30	28,6	28,6	970,7	2.000	BB0W000
EB1154A50133200N	32	29,4	29,4	1027,2	2.000	BB0W000
EB1154A50135000N	50	36,3	36,3	1578,3	1.600	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

EB1154A50320200N	2	10,8	10,8	88,1	2.000	BA0W000
EB1154A50320300N	3	12,4	12,4	119,3	2.000	BA2W000
EB1154A50320400N	4	12,8	12,8	140,2	2.000	BA2W000
EB1154A50320500N	5	13,7	13,7	163,7	2.000	BA2W000
EB1154A50320600N	6	14,4	14,4	191,8	2.000	BA3W000
EB1154A50321000N	10	17,9	17,9	294,2	2.000	BA4W000
EB1154A50321200N	12	19,2	19,2	339,9	2.000	BA4W000
EB1154A50321500N	15	21,3	21,3	419,3	2.000	BA6W000
EB1154A50321800N	18	23,2	23,2	497,8	2.000	BA6W000
EB1154A50322000N	20	24,3	24,3	543,4	2.000	BA6W000
EB1154A50322400N	24	26,4	26,4	644,6	2.000	BA8W000
EB1154A50323000N	30	29,3	29,3	791,8	2.000	BB0W000
EB1154A50323200N	32	30,1	30,1	836,0	2.000	BB0W000
EB1154A50325000N	50	37,2	37,2	1279,1	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

EB1154A50330200N	2	11,3	11,3	103,5	2.000	BA0W000
EB1154A50330300N	3	13,0	13,0	141,9	2.000	BA2W000
EB1154A50330400N	4	13,5	13,5	169,9	2.000	BA2W000
EB1154A50330500N	5	14,6	14,6	206,6	2.000	BA3W000
EB1154A50330600N	6	15,1	15,1	234,9	2.000	BA3W000
EB1154A50331000N	10	18,8	18,8	364,8	2.000	BA4W000
EB1154A50331200N	12	20,5	20,5	434,2	2.000	BA6W000
EB1154A50331500N	15	22,5	22,5	524,9	2.000	BA6W000
EB1154A50331800N	18	24,5	24,5	624,3	2.000	BA6W000
EB1154A50332000N	20	25,8	25,8	694,7	2.000	BA8W000
EB1154A50332400N	24	27,9	27,9	812,2	2.000	BB0W000
EB1154A50333000N	30	31,1	31,1	1014,2	2.000	BB0W000
EB1154A50333200N	32	32,0	32,0	1072,7	2.000	BB0W000
EB1154A50335000N	50	39,5	39,5	1642,6	1.300	BBBW000

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EB1154A-Ed2

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

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

EB1154A75320200N	2	11,5	11,5	99,7	2.000	BA0W000
EB1154A75320300N	3	13,2	13,2	135,8	2.000	BA2W000
EB1154A75320400N	4	13,7	13,7	161,4	2.000	BA2W000
EB1154A75320500N	5	14,9	14,9	196,4	2.000	BA3W000
EB1154A75320600N	6	15,4	15,4	222,2	2.000	BA3W000
EB1154A75321000N	10	19,2	19,2	343,4	2.000	BA4W000
EB1154A75321200N	12	20,9	20,9	409,4	2.000	BA6W000
EB1154A75321500N	15	23,2	23,2	503,1	2.000	BA6W000
EB1154A75321800N	18	25,2	25,2	596,5	2.000	BA8W000
EB1154A75322000N	20	26,4	26,4	651,6	2.000	BA8W000
EB1154A75322400N	24	28,7	28,7	772,7	2.000	BB0W000
EB1154A75323000N	30	31,8	31,8	948,6	2.000	BB0W000
EB1154A75323200N	32	32,7	32,7	1002,3	2.000	BBB0W000
EB1154A75325000N	50	40,7	40,7	1549,5	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

EB1154A75330200N	2	12,3	12,3	125,1	2.000	BA2W000
EB1154A75330300N	3	13,9	13,9	164,9	2.000	BA2W000
EB1154A75330400N	4	14,6	14,6	205,7	2.000	BA3W000
EB1154A75330500N	5	15,7	15,7	243,4	2.000	BA3W000
EB1154A75330600N	6	16,2	16,2	277,7	2.000	BA4W000
EB1154A75331000N	10	20,4	20,4	443,8	2.000	BA6W000
EB1154A75331200N	12	22,0	22,0	518,7	2.000	BA6W000
EB1154A75331500N	15	24,4	24,4	639,1	2.000	BA6W000
EB1154A75331800N	18	26,6	26,6	760,0	2.000	BA8W000
EB1154A75332000N	20	27,8	27,8	832,1	2.000	BB0W000
EB1154A75332400N	24	30,3	30,3	989,5	2.000	BB0W000
EB1154A75333000N	30	33,8	33,8	1234,4	1.900	BBB0W000
EB1154A75333200N	32	34,8	34,8	1306,3	1.900	BBB0W000
EB1154A75335000N	50	43,2	43,2	2017,9	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

EB1154AA0120200N	2	11,6	11,6	113,1	2.000	BA0W000
EB1154AA0120300N	3	13,3	13,3	155,8	2.000	BA2W000
EB1154AA0120400N	4	13,8	13,8	187,9	2.000	BA2W000
EB1154AA0120500N	5	15,0	15,0	229,4	2.000	BA3W000
EB1154AA0120600N	6	15,5	15,5	261,7	2.000	BA3W000
EB1154AA0121000N	10	19,3	19,3	408,8	2.000	BA4W000
EB1154AA0121200N	12	21,0	21,0	487,9	2.000	BA6W000
EB1154AA0121500N	15	23,3	23,3	601,0	2.000	BA6W000
EB1154AA0121800N	18	25,4	25,4	714,7	2.000	BA8W000
EB1154AA0122000N	20	26,5	26,5	781,9	2.000	BA8W000
EB1154AA0122400N	24	28,9	28,9	929,8	2.000	BB0W000
EB1154AA0123000N	30	32,0	32,0	1144,8	2.000	BB0W000
EB1154AA0123200N	32	32,9	32,9	1211,4	2.000	BBB0W000
EB1154AA0125000N	50	41,0	41,0	1876,6	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

EB1154AA0130200N	2	12,4	12,4	145,2	2.000	BA2W000
EB1154AA0130300N	3	14,0	14,0	194,8	2.000	BA2W000
EB1154AA0130400N	4	14,7	14,7	245,3	2.000	BA3W000
EB1154AA0130500N	5	15,8	15,8	292,9	2.000	BA4W000
EB1154AA0130600N	6	16,3	16,3	337,0	2.000	BA4W000
EB1154AA0131000N	10	20,6	20,6	544,2	2.000	BA6W000
EB1154AA0131200N	12	22,2	22,2	637,4	2.000	BA6W000
EB1154AA0131500N	15	24,6	24,6	787,1	2.000	BA8W000
EB1154AA0131800N	18	26,8	26,8	937,5	2.000	BB0W000
EB1154AA0132000N	20	28,1	28,1	1029,9	2.000	BB0W000
EB1154AA0132400N	24	30,8	30,8	1240,7	2.000	BB0W000
EB1154AA0133000N	30	34,1	34,1	1530,3	1.900	BBB0W000
EB1154AA0133200N	32	35,0	35,0	1621,0	1.900	BBB0W000
EB1154AA0135000N	50	43,6	43,6	2510,9	1.100	BBB0W000

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INDIVIDUAL&OVERALL SCREENED, UNARMoured, INSTRUMENTATION CABLE.
(PE / ISCR / OSCR / PVC) RE-2Y(St)Y -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

EB1154AA5220200N	2	13,4	13,4	149,9	2.000	BA2W000
EB1154AA5220300N	3	15,3	15,3	206,8	2.000	BA3W000
EB1154AA5220400N	4	15,9	15,9	251,2	2.000	BA4W000
EB1154AA5220500N	5	17,1	17,1	299,1	2.000	BA4W000
EB1154AA5220600N	6	17,9	17,9	351,7	2.000	BA4W000
EB1154AA5221000N	10	22,4	22,4	553,9	2.000	BA6W000
EB1154AA5221200N	12	24,4	24,4	659,2	2.000	BA6W000
EB1154AA5221500N	15	27,0	27,0	811,8	2.000	BB0W000
EB1154AA5221800N	18	29,4	29,4	965,1	2.000	BB0W000
EB1154AA5222000N	20	31,0	31,0	1072,7	2.000	BB0W000
EB1154AA5222400N	24	33,5	33,5	1258,2	1.900	BBB0W000
EB1154AA5223000N	30	37,3	37,3	1567,7	1.600	BBB0W000
EB1154AA5223200N	32	38,4	38,4	1660,1	1.600	BBB0W000
EB1154AA5225000N	50	47,9	47,9	2585,6	1.000	BBB0W000

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

EB1154AA5230200N	2	14,1	14,1	188,1	2.000	BA3W000
EB1154AA5230300N	3	16,2	16,2	263,7	2.000	BA4W000
EB1154AA5230400N	4	16,8	16,8	325,5	2.000	BA4W000
EB1154AA5230500N	5	18,3	18,3	399,6	2.000	BA4W000
EB1154AA5230600N	6	18,9	18,9	461,6	2.000	BA4W000
EB1154AA5231000N	10	23,9	23,9	746,4	2.000	BA6W000
EB1154AA5231200N	12	26,0	26,0	888,5	2.000	BA8W000
EB1154AA5231500N	15	28,8	28,8	1096,5	2.000	BB0W000
EB1154AA5231800N	18	31,3	31,3	1304,4	2.000	BB0W000
EB1154AA5232000N	20	32,8	32,8	1433,8	2.000	BBB0W000
EB1154AA5232400N	24	35,7	35,7	1706,5	1.800	BBB0W000
EB1154AA5233000N	30	39,8	39,8	2126,2	1.400	BBB0W000
EB1154AA5233200N	32	41,4	41,4	2290,4	1.300	BBB0W000
EB1154AA5235000N	50	51,0	51,0	3507,3	800	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

EB1154AB5220200N	2	15,1	15,1	204,2	2.000	BA3W000
EB1154AB5220300N	3	17,2	17,2	276,8	2.000	BA4W000
EB1154AB5220400N	4	18,1	18,1	349,9	2.000	BA4W000
EB1154AB5220500N	5	19,4	19,4	418,6	2.000	BA4W000
EB1154AB5220600N	6	20,3	20,3	493,1	2.000	BA6W000
EB1154AB5221000N	10	25,6	25,6	793,6	2.000	BA8W000
EB1154AB5221200N	12	27,7	27,7	931,1	2.000	BB0W000
EB1154AB5221500N	15	30,9	30,9	1163,1	2.000	BB0W000
EB1154AB5221800N	18	33,4	33,4	1366,8	1.900	BBB0W000
EB1154AB5222000N	20	35,2	35,2	1518,2	1.900	BBB0W000
EB1154AB5222400N	24	38,3	38,3	1805,1	1.600	BBB0W000
EB1154AB5223000N	30	43,0	43,0	2265,2	1.200	BBB0W000
EB1154AB5223200N	32	44,2	44,2	2399,6	1.100	BBB0W000
EB1154AB5225000N	50	54,7	54,7	3698,9	700	BBB0W000

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

EB1154AB5230200N	2	16,0	16,0	263,3	2.000	BA4W000
EB1154AB5230300N	3	18,4	18,4	372,1	2.000	BA4W000
EB1154AB5230400N	4	19,1	19,1	464,2	2.000	BA4W000
EB1154AB5230500N	5	20,8	20,8	572,0	2.000	BA6W000
EB1154AB5230600N	6	21,5	21,5	664,6	2.000	BA6W000
EB1154AB5231000N	10	27,1	27,1	1075,4	2.000	BB0W000
EB1154AB5231200N	12	29,5	29,5	1281,3	2.000	BB0W000
EB1154AB5231500N	15	32,7	32,7	1584,1	2.000	BBB0W000
EB1154AB5231800N	18	35,7	35,7	1887,9	1.800	BBB0W000
EB1154AB5232000N	20	37,5	37,5	2095,2	1.600	BBB0W000
EB1154AB5232400N	24	41,4	41,4	2532,2	1.300	BBB0W000
EB1154AB5233000N	30	45,8	45,8	3125,5	1.000	BBB0W000
EB1154AB5233200N	32	47,3	47,3	3337,5	1.000	BBB0W000
EB1154AB5235000N	50	58,5	58,5	5147,9	600	BBB0W000

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