

INDIVIDUAL&OVERALL SCREENED, UNARMoured, LSZH INSTRUMENTATION CABLE. (XLPE / ISCR / OSCR / LSZH) RE-2X(St)H -p/tIMF -fl



Flame Retardant



Fire Retardant



Low smoke emission



Zero halogen



UV Resistant



ROHS Compliant



EM Interferences Resistant



UV Resistant

STANDARDS

Gen. to 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:** 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.
- **Sheath:** LSZH compound, acc. to EN 50290-2-29, type LTS3. 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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(XLPE / ISCR / OSCR / LSZH)

RE-2X(St)H -p/tIMF -fl

ELECTRICAL CHARACTERISTICS (20°C)	0,5mm²	0,5mm²	0,75mm²	1,0mm²	1,5mm²	2,5mm²
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		140
Inductance to Resistance Ratio (L/R) (mH/Ω). Max.	25			40		60
Operating voltage (V.)	300 / 500					
Test Voltage (Vac./ Vcc., 1 min)	1.500 / 2.200					

MECHANICAL CHARACTERISTICS	0,5mm²	0,5mm²	0,75mm²	1,0mm²	1,5mm²	2,5mm²
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					
Fire properties	UNE-EN 60332-3-24 / IEC 60332-3-24					
Smoke Density	IEC 61034-2					
Halogen Free Test	IEC 60754-1					
Test on corrosiveness of Combustion Gases	IEC 60754-2					

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

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RE-2X(St)H -p/tIMF -fl

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

EB1175350120200N	2	10,1	10,1	85,0	2.000	BA0W000
EB1175350120300N	3	11,3	11,3	109,3	2.000	BA0W000
EB1175350120400N	4	11,8	11,8	130,3	2.000	BA0W000
EB1175350120500N	5	12,8	12,8	158,7	2.000	BA2W000
EB1175350120600N	6	13,2	13,2	179,3	2.000	BA2W000
EB1175350121000N	10	16,4	16,4	277,1	2.000	BA4W000
EB1175350121200N	12	17,9	17,9	330,1	2.000	BA4W000
EB1175350121500N	15	19,8	19,8	405,6	2.000	BA6W000
EB1175350121800N	18	21,3	21,3	472,6	2.000	BA6W000
EB1175350122000N	20	22,3	22,3	516,5	2.000	BA6W000
EB1175350122400N	24	24,3	24,3	614,2	2.000	BA6W000
EB1175350123000N	30	26,9	26,9	755,6	2.000	BB0W000
EB1175350123200N	32	27,7	27,7	798,9	2.000	BB0W000
EB1175350125000N	50	34,2	34,2	1226,3	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

EB1175350130200N	2	10,6	10,6	100,3	2.000	BA0W000
EB1175350130300N	3	11,9	11,9	131,5	2.000	BA0W000
EB1175350130400N	4	12,5	12,5	164,3	2.000	BA2W000
EB1175350130500N	5	13,4	13,4	194,1	2.000	BA2W000
EB1175350130600N	6	13,9	13,9	221,7	2.000	BA2W000
EB1175350131000N	10	17,3	17,3	346,8	2.000	BA4W000
EB1175350131200N	12	18,8	18,8	413,1	2.000	BA4W000
EB1175350131500N	15	20,8	20,8	510,3	2.000	BA6W000
EB1175350131800N	18	22,5	22,5	596,9	2.000	BA6W000
EB1175350132000N	20	23,7	23,7	664,8	2.000	BA6W000
EB1175350132400N	24	25,8	25,8	790,7	2.000	BA8W000
EB1175350133000N	30	28,6	28,6	974,2	2.000	BB0W000
EB1175350133200N	32	29,4	29,4	1030,8	2.000	BB0W000
EB1175350135000N	50	36,3	36,3	1583,4	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

EB1175350320200N	2	10,8	10,8	88,9	2.000	BA0W000
EB1175350320300N	3	12,4	12,4	120,4	2.000	BA2W000
EB1175350320400N	4	12,8	12,8	141,3	2.000	BA2W000
EB1175350320500N	5	13,7	13,7	164,9	2.000	BA2W000
EB1175350320600N	6	14,4	14,4	193,1	2.000	BA3W000
EB1175350321000N	10	17,9	17,9	296,0	2.000	BA4W000
EB1175350321200N	12	19,2	19,2	341,8	2.000	BA4W000
EB1175350321500N	15	21,3	21,3	421,5	2.000	BA6W000
EB1175350321800N	18	23,2	23,2	500,5	2.000	BA6W000
EB1175350322000N	20	24,3	24,3	546,1	2.000	BA6W000
EB1175350322400N	24	26,4	26,4	647,8	2.000	BA8W000
EB1175350323000N	30	29,3	29,3	795,5	2.000	BB0W000
EB1175350323200N	32	30,1	30,1	839,8	2.000	BB0W000
EB1175350325000N	50	37,2	37,2	1284,6	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

EB1175350330200N	2	11,3	11,3	104,4	2.000	BA0W000
EB1175350330300N	3	13,0	13,0	143,0	2.000	BA2W000
EB1175350330400N	4	13,5	13,5	171,1	2.000	BA2W000
EB1175350330500N	5	14,6	14,6	208,0	2.000	BA3W000
EB1175350330600N	6	15,1	15,1	236,2	2.000	BA3W000
EB1175350331000N	10	18,8	18,8	366,6	2.000	BA4W000
EB1175350331200N	12	20,5	20,5	436,3	2.000	BA6W000
EB1175350331500N	15	22,5	22,5	527,1	2.000	BA6W000
EB1175350331800N	18	24,5	24,5	626,9	2.000	BA6W000
EB1175350332000N	20	25,8	25,8	697,7	2.000	BA8W000
EB1175350332400N	24	27,9	27,9	815,3	2.000	BB0W000
EB1175350333000N	30	31,1	31,1	1018,2	2.000	BB0W000
EB1175350333200N	32	32,0	32,0	1076,8	2.000	BB0W000
EB1175350335000N	50	39,5	39,5	1648,4	1.300	BBBW000

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EB11753-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

EB1175375320200N	2	11,5	11,5	100,6	2.000	BA0W000
EB1175375320300N	3	13,2	13,2	137,0	2.000	BA2W000
EB1175375320400N	4	13,7	13,7	162,5	2.000	BA2W000
EB1175375320500N	5	14,9	14,9	197,8	2.000	BA3W000
EB1175375320600N	6	15,4	15,4	223,7	2.000	BA3W000
EB1175375321000N	10	19,2	19,2	345,3	2.000	BA4W000
EB1175375321200N	12	20,9	20,9	411,7	2.000	BA6W000
EB1175375321500N	15	23,2	23,2	505,7	2.000	BA6W000
EB1175375321800N	18	25,2	25,2	599,6	2.000	BA8W000
EB1175375322000N	20	26,4	26,4	654,8	2.000	BA8W000
EB1175375322400N	24	28,7	28,7	776,4	2.000	BB0W000
EB1175375323000N	30	31,8	31,8	952,9	2.000	BB0W000
EB1175375323200N	32	32,7	32,7	1006,8	2.000	BBBW000
EB1175375325000N	50	40,7	40,7	1555,9	1.300	BBBW000

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

EB1175375330200N	2	12,3	12,3	126,2	2.000	BA2W000
EB1175375330300N	3	13,9	13,9	166,1	2.000	BA2W000
EB1175375330400N	4	14,6	14,6	207,0	2.000	BA3W000
EB1175375330500N	5	15,7	15,7	244,8	2.000	BA3W000
EB1175375330600N	6	16,2	16,2	279,2	2.000	BA4W000
EB1175375331000N	10	20,4	20,4	445,9	2.000	BA6W000
EB1175375331200N	12	22,0	22,0	520,9	2.000	BA6W000
EB1175375331500N	15	24,4	24,4	641,7	2.000	BA6W000
EB1175375331800N	18	26,6	26,6	763,0	2.000	BA8W000
EB1175375332000N	20	27,8	27,8	835,3	2.000	BB0W000
EB1175375332400N	24	30,3	30,3	993,1	2.000	BB0W000
EB1175375333000N	30	33,8	33,8	1238,9	1.900	BBBW000
EB1175375333200N	32	34,8	34,8	1311,0	1.900	BBBW000
EB1175375335000N	50	43,2	43,2	2024,5	1.200	BBBW000

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

EB11753A0120200N	2	11,6	11,6	114,0	2.000	BA0W000
EB11753A0120300N	3	13,3	13,3	156,9	2.000	BA2W000
EB11753A0120400N	4	13,8	13,8	189,0	2.000	BA2W000
EB11753A0120500N	5	15,0	15,0	230,8	2.000	BA3W000
EB11753A0120600N	6	15,5	15,5	263,1	2.000	BA3W000
EB11753A0121000N	10	19,3	19,3	410,7	2.000	BA4W000
EB11753A0121200N	12	21,0	21,0	490,1	2.000	BA6W000
EB11753A0121500N	15	23,3	23,3	603,7	2.000	BA6W000
EB11753A0121800N	18	25,4	25,4	717,8	2.000	BA8W000
EB11753A0122000N	20	26,5	26,5	785,1	2.000	BA8W000
EB11753A0122400N	24	28,9	28,9	933,5	2.000	BB0W000
EB11753A0123000N	30	32,0	32,0	1149,1	2.000	BB0W000
EB11753A0123200N	32	32,9	32,9	1215,8	2.000	BBBW000
EB11753A0125000N	50	41,0	41,0	1883,0	1.300	BBBW000

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

EB11753A0130200N	2	12,4	12,4	146,3	2.000	BA2W000
EB11753A0130300N	3	14,0	14,0	196,0	2.000	BA2W000
EB11753A0130400N	4	14,7	14,7	246,7	2.000	BA3W000
EB11753A0130500N	5	15,8	15,8	294,3	2.000	BA4W000
EB11753A0130600N	6	16,3	16,3	338,4	2.000	BA4W000
EB11753A0131000N	10	20,6	20,6	546,3	2.000	BA6W000
EB11753A0131200N	12	22,2	22,2	639,6	2.000	BA6W000
EB11753A0131500N	15	24,6	24,6	789,8	2.000	BA8W000
EB11753A0131800N	18	26,8	26,8	940,6	2.000	BB0W000
EB11753A0132000N	20	28,1	28,1	1033,1	2.000	BB0W000
EB11753A0132400N	24	30,8	30,8	1244,7	2.000	BB0W000
EB11753A0133000N	30	34,1	34,1	1534,9	1.900	BBBW000
EB11753A0133200N	32	35,0	35,0	1625,7	1.900	BBBW000
EB11753A0135000N	50	43,6	43,6	2517,7	1.100	BBBW000

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EB11753-Ed2

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(XLPE / ISCR / OSCR / LSZH) RE-2X(St)H -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

EB11753A5220200N	2	13,4	13,4	151,1	2.000	BA2W000
EB11753A5220300N	3	15,3	15,3	208,3	2.000	BA3W000
EB11753A5220400N	4	15,9	15,9	252,7	2.000	BA4W000
EB11753A5220500N	5	17,1	17,1	300,7	2.000	BA4W000
EB11753A5220600N	6	17,9	17,9	353,5	2.000	BA4W000
EB11753A5221000N	10	22,4	22,4	556,3	2.000	BA6W000
EB11753A5221200N	12	24,4	24,4	661,9	2.000	BA6W000
EB11753A5221500N	15	27,0	27,0	815,1	2.000	BB0W000
EB11753A5221800N	18	29,4	29,4	968,9	2.000	BB0W000
EB11753A5222000N	20	31,0	31,0	1077,0	2.000	BB0W000
EB11753A5222400N	24	33,5	33,5	1262,7	1.900	BBB0W000
EB11753A5223000N	30	37,3	37,3	1573,3	1.600	BBB0W000
EB11753A5223200N	32	38,4	38,4	1665,9	1.600	BBB0W000
EB11753A5225000N	50	47,9	47,9	2594,2	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

EB11753A5230200N	2	14,1	14,1	189,3	2.000	BA3W000
EB11753A5230300N	3	16,2	16,2	265,2	2.000	BA4W000
EB11753A5230400N	4	16,8	16,8	327,0	2.000	BA4W000
EB11753A5230500N	5	18,3	18,3	401,4	2.000	BA4W000
EB11753A5230600N	6	18,9	18,9	463,4	2.000	BA4W000
EB11753A5231000N	10	23,9	23,9	749,0	2.000	BA6W000
EB11753A5231200N	12	26,0	26,0	891,6	2.000	BA8W000
EB11753A5231500N	15	28,8	28,8	1100,0	2.000	BB0W000
EB11753A5231800N	18	31,3	31,3	1308,5	2.000	BB0W000
EB11753A5232000N	20	32,8	32,8	1438,0	2.000	BBB0W000
EB11753A5232400N	24	35,7	35,7	1711,4	1.800	BBB0W000
EB11753A5233000N	30	39,8	39,8	2132,2	1.400	BBB0W000
EB11753A5233200N	32	41,4	41,4	2297,0	1.300	BBB0W000
EB11753A5235000N	50	51,0	51,0	3516,3	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

EB11753B5220200N	2	15,1	15,1	205,6	2.000	BA3W000
EB11753B5220300N	3	17,2	17,2	278,5	2.000	BA4W000
EB11753B5220400N	4	18,1	18,1	351,8	2.000	BA4W000
EB11753B5220500N	5	19,4	19,4	420,6	2.000	BA4W000
EB11753B5220600N	6	20,3	20,3	495,3	2.000	BA6W000
EB11753B5221000N	10	25,6	25,6	796,8	2.000	BA8W000
EB11753B5221200N	12	27,7	27,7	934,5	2.000	BB0W000
EB11753B5221500N	15	30,9	30,9	1167,4	2.000	BB0W000
EB11753B5221800N	18	33,4	33,4	1371,4	1.900	BBB0W000
EB11753B5222000N	20	35,2	35,2	1523,4	1.900	BBB0W000
EB11753B5222400N	24	38,3	38,3	1811,0	1.600	BBB0W000
EB11753B5223000N	30	43,0	43,0	2272,4	1.200	BBB0W000
EB11753B5223200N	32	44,2	44,2	2407,1	1.100	BBB0W000
EB11753B5225000N	50	54,7	54,7	3709,7	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

EB11753B5230200N	2	16,0	16,0	264,8	2.000	BA4W000
EB11753B5230300N	3	18,4	18,4	373,9	2.000	BA4W000
EB11753B5230400N	4	19,1	19,1	466,1	2.000	BA4W000
EB11753B5230500N	5	20,8	20,8	574,3	2.000	BA6W000
EB11753B5230600N	6	21,5	21,5	666,8	2.000	BA6W000
EB11753B5231000N	10	27,1	27,1	1078,6	2.000	BB0W000
EB11753B5231200N	12	29,5	29,5	1285,0	2.000	BB0W000
EB11753B5231500N	15	32,7	32,7	1588,4	2.000	BBB0W000
EB11753B5231800N	18	35,7	35,7	1892,9	1.800	BBB0W000
EB11753B5232000N	20	37,5	37,5	2100,7	1.600	BBB0W000
EB11753B5232400N	24	41,4	41,4	2538,9	1.300	BBB0W000
EB11753B5233000N	30	45,8	45,8	3133,2	1.000	BBB0W000
EB11753B5233200N	32	47,3	47,3	3345,8	1.000	BBB0W000
EB11753B5235000N	50	58,5	58,5	5159,7	600	BBB0W000

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