

RE-2X(St)YSWBY-fl 300/500V

Flame retardant, UV resistant, oil resistant instrumentation cable



Application

For transmission of analogue and digital signals in instrument and control systems, allowed for use in zone 1 and zone 2 group ii classified areas (IEC 60079-14), not allowed for direct connection to low impedance source, e.g. the public mains electricity supply. These cables can be used in cable trays, conduits or direct burial applications in industrial installations where there is a potential risk of mechanical damage.

Construction

Conductor	: Plain annealed stranded copper Class 2
Insulation	: XLPE
Collective screen	: 24µm Aluminium / PETP tape over 7-stranded tinned copper drain wire, 0.75mm ²
Inner sheath	: PVC, Polyvinyl chloride
Armouring	: Galvanised steel wire braid
Outer sheath	: PVC, Polyvinyl chloride
Marking text	: E.g. Incore-Cables RE-2X(St)YSWBY-fl 300/500V EN50288-7 IEC60332-3-24 CE xxm
Operating voltage	: 300/500V

Colour Code

Single pair	: Black/white
Multi pair	: Black/white numbered
Single triple	: Black/white/red
Multi triple	: Black/white/red numbered

Outer Sheath Colours

Available colours	: Black or blue
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*other colours available on request

Installation recommendations

Min. Bending Radius	: 10xD
Max. Conductor Operating Temperature	: 90°C

T : +31 (0)168 468 100

E : sales@incore-cables.com

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Standards applied

IEC 60228 Class 2
 EN50288-7
 IEC60332-3-24 (Cat C)
 UL1581 section 1200

Conductor
 Flame Retardant
 UV Resistant
 Oil Resistant

Range and Dimensions / Pairs

Article Code	Number of pairs/triples Size cross-section in mm ²	Insulation thickness in mm	Nominal thickness inner sheath in mm	Approx. diameter over inner sheath in mm	Nominal diameter of armour braiding in mm	Nominal thickness of outer sheath in mm	Nominal overall diameter in mm	Approx. total weight in kg/Km
S70S01P0.5BJJBK2	1 x 2 x 0.5	0.55	0.9	7.1	0.30	1.4	11.7	211
S70S02P0.5BJJBK2	2 x 2 x 0.5	0.55	1.0	9.7	0.30	1.4	14.3	331
S70S04P0.5BJJBK2	4 x 2 x 0.5	0.55	1.0	10.6	0.30	1.5	15.4	402
S70S05P0.5BJJBK2	5 x 2 x 0.5	0.55	1.1	11.8	0.30	1.5	16.6	460
S70S06P0.5BJJBK2	6 x 2 x 0.5	0.55	1.1	12.9	0.30	1.5	17.7	509
S70S08P0.5BJJBK2	8 x 2 x 0.5	0.55	1.2	13.9	0.30	1.5	18.7	568
S70S10P0.5BJJBK2	10 x 2 x 0.5	0.55	1.2	15.7	0.30	1.6	21.4	779
S70S12P0.5BJJBK2	12 x 2 x 0.5	0.55	1.3	16.6	0.30	1.6	22.3	847
S70S16P0.5BJJBK2	16 x 2 x 0.5	0.55	1.3	18.7	0.30	1.7	24.6	972
S70S20P0.5BJJBK2	20 x 2 x 0.5	0.55	1.4	20.8	0.45	1.8	26.9	1157
S70S24P0.5BJJBK2	24 x 2 x 0.5	0.55	1.5	22.7	0.45	1.8	28.8	1303
S70S01P.75BJJBK2	1 x 2 x 0.75	0.55	0.9	7.4	0.3	1.4	12	224
S70S02P.75BJJBK2	2 x 2 x 0.75	0.55	1	10.3	0.3	1.4	14.9	479
S70S04P.75BJJBK2	4 x 2 x 0.75	0.55	1.1	11.6	0.3	1.5	16.4	694
S70S05P.75BJJBK2	5 x 2 x 0.75	0.55	1.1	12.7	0.3	1.5	17.5	799
S70S06P.75BJJBK2	6 x 2 x 0.75	0.55	1.2	14	0.3	1.5	18.8	940
S70S08P.75BJJBK2	8 x 2 x 0.75	0.55	1.2	14.9	0.3	1.6	19.9	1127
S70S10P.75BJJBK2	10 x 2 x 0.75	0.55	1.3	17	0.3	1.7	22.9	1500
S70S12P.75BJJBK2	12 x 2 x 0.75	0.55	1.3	17.8	0.3	1.7	23.7	938
S70S16P.75BJJBK2	16 x 2 x 0.75	0.55	1.4	20.3	0.45	1.7	26.2	2119
S70S20P.75BJJBK2	20 x 2 x 0.75	0.55	1.5	22.6	0.45	1.8	28.7	2556
S70S24P.75BJJBK2	24 x 2 x 0.75	0.55	1.6	24.7	0.45	1.9	31	2986
S70S01P1.0BJJBK2	1 x 2 x 1.0	0.55	0.9	7.8	0.3	1.4	12.4	240
S70S02P1.0BJJBK2	2 x 2 x 1.0	0.55	1.1	11.1	0.3	1.5	15.9	378
S70S04P1.0BJJBK2	4 x 2 x 1.0	0.55	1.1	12.3	0.3	1.5	17.1	480
S70S05P1.0BJJBK2	5 x 2 x 1.0	0.55	1.2	13.7	0.3	1.5	18.5	574
S70S06P1.0BJJBK2	6 x 2 x 1.0	0.55	1.2	14.9	0.3	1.6	19.9	650
S70S08P1.0BJJBK2	8 x 2 x 1.0	0.55	1.2	15.8	0.3	1.6	21.5	834
S70S10P1.0BJJBK2	10 x 2 x 1.0	0.55	1.3	18.2	0.3	1.7	24.1	969
S70S12P1.0BJJBK2	12 x 2 x 1.0	0.55	1.4	19.2	0.3	1.7	25.1	1087
S70S16P1.0BJJBK2	16 x 2 x 1.0	0.55	1.5	21.9	0.45	1.8	28	1328
S70S20P1.0BJJBK2	20 x 2 x 1.0	0.55	1.6	24.4	0.45	1.9	30.7	1505
S70S24P1.0BJJBK2	24 x 2 x 1.0	0.55	1.6	26.4	0.45	1.9	33.4	1941
S70S01P1.3BJJBK2	1 x 2 x 1.3	0.6	1.0	8.5	0.3	1.4	13.1	276
S70S02P1.3BJJBK2	2 x 2 x 1.3	0.6	1.1	12.1	0.3	1.5	16.9	468
S70S04P1.3BJJBK2	4 x 2 x 1.3	0.6	1.2	13.6	0.3	1.5	18.4	570
S70S05P1.3BJJBK2	5 x 2 x 1.3	0.6	1.2	15.0	0.3	1.6	20.0	657
S70S06P1.3BJJBK2	6 x 2 x 1.3	0.6	1.3	16.5	0.3	1.6	22.2	874
S70S08P1.3BJJBK2	8 x 2 x 1.3	0.6	1.3	17.6	0.3	1.7	23.5	984
S70S10P1.3BJJBK2	10 x 2 x 1.3	0.6	1.4	20.2	0.45	1.7	26.1	1153
S70S12P1.3BJJBK2	12 x 2 x 1.3	0.6	1.4	21.1	0.45	1.8	27.2	1264
S70S16P1.3BJJBK2	16 x 2 x 1.3	0.6	1.6	24.4	0.45	1.9	30.7	1528
S70S20P1.3BJJBK2	20 x 2 x 1.3	0.6	1.7	27.1	0.45	2.0	34.3	2006
S70S24P1.3BJJBK2	24 x 2 x 1.3	0.6	1.7	29.3	0.45	2.0	36.5	2282
S70S01P1.5BJJBK2	1 x 2 x 1.5	0.6	1.0	8.8	0.3	1.4	13.4	289
S70S02P1.5BJJBK2	2 x 2 x 1.5	0.6	1.1	12.5	0.3	1.5	17.3	490
S70S04P1.5BJJBK2	4 x 2 x 1.5	0.6	1.2	14.1	0.3	1.6	19.1	609
S70S05P1.5BJJBK2	5 x 2 x 1.5	0.6	1.2	15.5	0.3	1.6	21.2	810
S70S06P1.5BJJBK2	6 x 2 x 1.5	0.6	1.3	17.1	0.3	1.7	23.0	931
S70S08P1.5BJJBK2	8 x 2 x 1.5	0.6	1.3	18.2	0.3	1.7	24.1	1009

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S70S10P1.5BJJBK2	10 x 2 x 1.5	0.6	1.3	21	0.45	1.8	27.1	1245
S70S12P1.5BJJBK2	12 x 2 x 1.5	0.6	1.5	22.1	0.45	1.8	28.2	1365
S70S16P1.5BJJBK2	16 x 2 x 1.5	0.6	1.6	25.4	0.45	1.9	32.4	1900
S70S20P1.5BJJBK2	20 x 2 x 1.5	0.6	1.7	28.1	0.45	2.0	35.3	2103
S70S24P1.5BJJBK2	24 x 2 x 1.5	0.6	1.8	30.7	0.45	2.1	38.1	2474

Range and Dimensions / Triples

Article Code	Number of pairs/triples Size cross-section in mm ²	Insulation thickness in mm	Nominal thickness inner sheath in mm	Approx. diameter over inner sheath in mm	Nominal diameter of armour braiding in mm	Nominal thickness of outer sheath in mm	Nominal overall diameter in mm	Approx. total weight in kg/Km
S70S01T0.5BQQBK2	1 x 3 x 0.5	0.55	0.9	7.4	0.3	1.4	12.0	231
S70S02T0.5BQQBK2	2 x 3 x 0.5	0.55	1.0	10.2	0.3	1.4	14.8	373
S70S04T0.5BQQBK2	4 x 3 x 0.5	0.55	1.1	11.8	0.3	1.5	16.6	471
S70S05T0.5BQQBK2	5 x 3 x 0.5	0.55	1.1	13.1	0.3	1.5	17.9	536
S70S06T0.5BQQBK2	6 x 3 x 0.5	0.55	1.2	14.9	0.3	1.6	19.9	631
S70S08T0.5BQQBK2	8 x 3 x 0.5	0.55	1.2	15.9	0.3	1.6	21.6	812
S70S10T0.5BQQBK2	10 x 3 x 0.5	0.55	1.3	18.1	0.3	1.7	24.0	964
S70S12T0.5BQQBK2	12 x 3 x 0.5	0.55	1.3	18.7	0.3	1.7	24.6	1027
S70S16T0.5BQQBK2	16 x 3 x 0.5	0.55	1.4	21.4	0.45	1.8	27.5	1251
S70S20T0.5BQQBK2	20 x 3 x 0.5	0.55	1.5	23.8	0.45	1.8	29.9	1431
S70S24T0.5BQQBK2	24 x 3 x 0.5	0.55	1.6	26.0	0.45	1.9	33.0	1860
S70S01T.75BQQBK2	1 x 3 x 0.75	0.55	0.9	7,8	0,30	1,4	12,4	248
S70S02T.75BQQBK2	2 x 3 x 0.75	0.55	1,1	11,1	0,30	1,5	159	555
S70S04T.75BQQBK2	4 x 3 x 0.75	0.55	1,1	12,7	0,30	1,5	17,5	778
S70S05T.75BQQBK2	5 x 3 x 0.75	0.55	1,2	14,2	0,30	1,6	19,2	937
S70S06T.75BQQBK2	6 x 3 x 0.75	0.55	1,2	16,0	0,30	1,6	21,7	1212
S70S08T.75BQQBK2	8 x 3 x 0.75	0.55	1,3	17,3	0,30	1,7	23,2	1451
S70S10T.75BQQBK2	10 x 3 x 0.75	0.55	1,4	19,7	0,30	1,7	25,6	1738
S70S12T.75BQQBK2	12 x 3 x 0.75	0.55	1,4	20,3	0,45	1,7	26,2	1941
S70S16T.75BQQBK2	16 x 3 x 0.75	0.55	1,5	23,2	0,45	1,8	29,3	2454
S70S20T.75BQQBK2	20 x 3 x 0.75	0.55	1,6	25,8	0,45	1,9	32,8	3158
S70S24T.75BQQBK2	24 x 3 x 0.75	0.55	1,7	28,2	0,45	2,0	35,4	3676
S70S01T1.0BQQBK2	1 x 3 x 1.0	0.55	1,0	8,3	0,30	1,4	12,9	261
S70S02T1.0BQQBK2	2 x 3 x 1.0	0.55	1,1	11,7	0,30	1,5	16,5	464
S70S04T1.0BQQBK2	4 x 3 x 1.0	0.55	1,2	13,7	0,30	1,5	18,5	594
S70S05T1.0BQQBK2	5 x 3 x 1.0	0.55	1,2	15,1	0,30	1,6	20,8	801
S70S06T1.0BQQBK2	6 x 3 x 1.0	0.55	1,3	17,2	0,30	1,7	23,1	949
S70S08T1.0BQQBK2	8 x 3 x 1.0	0.55	1,3	18,4	0,30	1,7	24,3	1050
S70S10T1.0BQQBK2	10 x 3 x 1.0	0.55	1,4	21,0	0,45	1,8	27,1	1253
S70S12T1.0BQQBK2	12 x 3 x 1.0	0.55	1,5	21,9	0,45	1,8	28,0	1373
S70S16T1.0BQQBK2	16 x 3 x 1.0	0.55	1,6	25,1	0,45	1,9	32,1	1687
S70S20T1.0BQQBK2	20 x 3 x 1.0	0.55	1,7	27,8	0,45	2,0	35,0	2203
S70S24T1.0BQQBK2	24 x 3 x 1.0	0.55	1,8	30,3	0,45	2,0	37,5	2491
S70S01T1.3BQQBK2	1 x 3 x 1.3	0,6	1,0	8,9	0,30	1,4	13,5	297
S70S02T1.3BQQBK2	2 x 3 x 1.3	0,6	1,1	12,8	0,30	1,5	17,6	522
S70S04T1.3BQQBK2	4 x 3 x 1.3	0,6	1,2	15,0	0,30	1,6	20,0	684
S70S05T1.3BQQBK2	5 x 3 x 1.3	0,6	1,3	16,8	0,30	1,6	22,5	937
S70S06T1.3BQQBK2	6 x 3 x 1.3	0,6	1,4	19,1	0,30	1,7	25,0	1089
S70S08T1.3BQQBK2	8 x 3 x 1.3	0,6	1,4	20,5	0,45	1,7	26,4	1234
S70S10T1.3BQQBK2	10 x 3 x 1.3	0,6	1,5	23,4	0,45	1,8	29,5	1457
S70S12T1.3BQQBK2	12 x 3 x 1.3	0,6	1,6	24,4	0,45	1,9	30,7	1588
S70S16T1.3BQQBK2	16 x 3 x 1.3	0,6	1,7	27,8	0,45	2,0	35,0	
S70S20T1.3BQQBK2	20 x 3 x 1.3	0,6	1,8	30,9	0,45	2,1	38,3	2596
S70S24T1.3BQQBK2	24 x 3 x 1.3	0,6	1,9	33,6	0,45	2,1	41,0	2950
S70S01T1.5BQQBK2	1 x 3 x 1.5	0,6	1,0	9,2	0,30	1,4	13,8	313

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S70S02T1.5BQQBK2	2 x 3 x 1.5	0,6	1,1	13,3	0,30	1,5	18,1	541
S70S04T1.5BQQBK2	4 x 3 x 1.5	0,6	1,2	15,5	0,30	1,6	21,2	841
S70S05T1.5BQQBK2	5 x 3 x 1.5	0,6	1,3	17,4	0,30	1,7	23,3	999
S70S06T1.5BQQBK2	6 x 3 x 1.5	0,6	1,4	19,8	0,30	1,7	25,7	1159
S70S08T1.5BQQBK2	8 x 3 x 1.5	0,6	1,4	21,2	0,45	1,8	27,3	1321
S70S10T1.5BQQBK2	10 x 3 x 1.5	0,6	1,6	24,5	0,45	1,9	30,8	1598
S70S12T1.5BQQBK2	12 x 3 x 1.5	0,6	1,6	25,3	0,45	1,9	32,3	1947
S70S16T1.5BQQBK2	16 x 3 x 1.5	0,6	1,7	28,9	0,45	2,0	36,1	2389
S70S20T1.5BQQBK2	20 x 3 x 1.5	0,6	1,8	32,1	0,45	2,1	39,5	2790
S70S24T1.5BQQBK2	24 x 3 x 1.5	0,6	2,0	35,2	0,45	2,2	43,6	3194

Electrical Data at 20 °C

Conductor Size mm ²	0,5	0,75	1	1,3	1,5	2,5
Conductor resistance Ohm/Km Max	36,7	25	20,5	14,2	12,3	7,4
Insulation Resistance Min G ohmXKm	5	5	5	5	5	5
Mutual Capacitance Max nF/Km						
Single Pair/Triple	100	100	100	100	100	140
Up to & Inc 4 pair/triple	78	78	78	90	90	105
Above 4 pair/triple	65	65	65	75	75	105
Capacitance Unbalance Max pF/500mtr	500	500	500	500	500	500
Inductance Max mH/Km	1	1	1	1	1	1
L/R ratio Max uH/ohm	25	25	25	40	40	60
Test Voltage Kv						
Core to Core	2	2	2	2	2	2
Core to screen	2	2	2	2	2	2
Operating Voltage Kv	0,5	0,5	0,5	0,5	0,5	0,5

NOTICE

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T : +31 (0)168 468 100

E : sales@incore-cables.com

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