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

Flame retardant, UV resistant and oil resistant instrumentation cable with individual shielded pairs

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
Individual shield	: 24µm Aluminium / PETP tape over stranded tinned copper drain wire 0.5mm^2 wrapped in Polyester tape
Collective screen	: 24µm Aluminium / PETP tape over stranded tinned copper drain wire 0.5mm^2 wrapped in Polyester tape
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 PiMF 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

*other colours available on request

Installation recommendations

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

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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 mm²	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
S75S02P0.5BJJBK2	2 x 2 x 0.5	0.55	1.1	10.9	0.30	1.5	15.7	367
S75S04P0.5BJJBK2	4 x 2 x 0.5	0.55	1.1	12.1	0.30	1.5	16.9	467
S75S05P0.5BJJBK2	5 x 2 x 0.5	0.55	1.1	13.2	0.30	1.5	18.0	521
S75S06P0.5BJJBK2	6 x 2 x 0.5	0.55	1.2	14.6	0.30	1.6	19.6	601
S75S08P0.5BJJBK2	8 x 2 x 0.5	0.55	1.2	15.5	0.30	1.6	21.2	785
S75S10P0.5BJJBK2	10 x 2 x 0.5	0.55	1.3	17.8	0.30	1.7	23.7	
S75S12P0.5BJJBK2	12 x 2 x 0.5	0.55	1.3	18.7	0.30	1.7	24.6	
S75S16P0.5BJJBK2	16 x 2 x 0.5	0.55	1.4	21.3	0.45	1.8	27.4	1198
S75S20P0.5BJJBK2	20 x 2 x 0.5	0.55	1.5	23.7	0.45	1.8	29.8	1365
S75S24P0.5BJJBK2	24 x 2 x 0.5	0.55	1.6	25.9	0.45	1.9	32.9	1771
S75S02P.75BJJBK2	2 x 2 x 0.75	0.55	1.1	11.5	0.30	1.5	16.3	537
S75S04P.75BJJBK2	4 x 2 x 0.75	0.55	1.1	12.8	0.30	1.5	17.6	747
S75S05P.75BJJBK2	5 x 2 x 0.75	0.55	1.2	14.3	0.30	1.6	19.3	895
S75S06P.75BJJBK2	6 x 2 x 0.75	0.55	1.2	15.5	0.30	1.6	21.2	1133
S75S08P.75BJJBK2	8 x 2 x 0.75	0.55	1.3	16.7	0.30	1.6	22.4	1333
S75S10P.75BJJBK2	10 x 2 x 0.75	0.55	1.4	19.2	0.30	1.7	25.1	1644
S75S12P.75BJJBK2	12 x 2 x 0.75	0.55	1.4	20.1	0.45	1.7	26.0	1799
S75S16P.75BJJBK2	16 x 2 x 0.75	0.55	1.5	22.9	0.45	1.8	29.0	2274
S75S20P.75BJJBK2	20 x 2 x 0.75	0.55	1.6	25.5	0.45	1.9	32.5	2996
S75S24P.75BJJBK2	24 x 2 x 0.75	0.55	1.7	27.8	0.45	2.0	35.0	3491
S75S02P1.0BJJBK2	2 x 2 x 1.0	0.55	1.1	12.2	0.30	1.5	17.0	445
S75S04P1.0BJJBK2	4 x 2 x 1.0	0.55	1.2	13.7	0.30	1.5	18.5	545
S75S05P1.0BJJBK2	5 x 2 x 1.0	0.55	1.2	15.1	0.30	1.6	20.8	759
S75S06P1.0BJJBK2	6 x 2 x 1.0	0.55	1.3	16.6	0.30	1.6	22.3	860
S75S08P1.0BJJBK2	8 x 2 x 1.0	0.55	1.3	17.7	0.30	1.7	23.6	
S75S10P1.0BJJBK2	10 x 2 x 1.0	0.55	1.4	20.3	0.45	1.7	26.2	1141
S75S12P1.0BJJBK2	12 x 2 x 1.0	0.55	1.4	21.3	0.45	1.8	27.4	1246
S75S16P1.0BJJBK2	16 x 2 x 1.0	0.55	1.6	24.6	0.45	1.9	30.9	1528
S75S20P1.0BJJBK2	20 x 2 x 1.0	0.55	1.7	27.3	0.45	2.0	34.5	2014
S75S24P1.0BJJBK2	24 x 2 x 1.0	0.55	1.7	29.5	0.45	2.0	36.7	2244
S75S02P1.3BJJBK2	2 x 2 x 1.3	0.6	1.1	13.1	0.30	1.5	17.9	491
S75S04P1.3BJJBK2	4 x 2 x 1.3	0.6	1.2	14.9	0.30	1.6	19.9	636
S75S05P1.3BJJBK2	5 x 2 x 1.3	0.6	1.3	16.6	0.30	1.6	22.3	865
S75S06P1.3BJJBK2	6 x 2 x 1.3	0.6	1.3	18.1	0.30	1.7	24.0	
S75S08P1.3BJJBK2	8 x 2 x 1.3	0.6	1.4	19.5	0.30	1.7	25.4	1109
S75S10P1.3BJJBK2	10 x 2 x 1.3	0.6	1.5	22.3	0.45	1.8	28.4	1319
S75S12P1.3BJJBK2	12 x 2 x 1.3	0.6	1.5	23.5	0.45	1.8	29.6	1415
S75S16P1.3BJJBK2	16 x 2 x 1.3	0.6	1.6	26.8	0.45	1.9	33.8	1969
S75S20P1.3BJJBK2	20 x 2 x 1.3	0.6	1.8	29.9	0.45	2.0	37.1	2299
S75S24P1.3BJJBK2	24 x 2 x 1.3	0.6	1.9	32.6	0.45	2.1	40.0	2623
S75S02P1.5BJJBK2	2 x 2 x 1.5	0.6	1.2	13.7	0.30	1.5	18.5	516
S75S04P1.5BJJBK2	4 x 2 x 1.5	0.6	1.2	15.4	0.30	1.6	21.1	760
S75S05P1.5BJJBK2	5 x 2 x 1.5	0.6	1.3	17.1	0.30	1.7	23.0	915
S75S06P1.5BJJBK2	6 x 2 x 1.5	0.6	1.3	18.7	0.30	1.7	24.6	
S75S08P1.5BJJBK2	8 x 2 x 1.5	0.6	1.4	20.1	0.45	1.7	26.0	1175
S75S10P1.5BJJBK2	10 x 2 x 1.5	0.6	1.5	23.1	0.45	1.8	29.2	1399
S75S12P1.5BJJBK2	12 x 2 x 1.5	0.6	1.6	24.5	0.45	1.9	30.8	1544
S75S16P1.5BJJBK2	16 x 2 x 1.5	0.6	1.7	27.9	0.45	2.0	35.1	2036
S75S20P1.5BJJBK2	20 x 2 x 1.5	0.6	1.8	31.0	0.45	2.1	38.4	2456
S75S24P1.5BJJBK2	24 x 2 x 1.5	0.6	1.9	33.7	0.45	2.1	41.1	2809

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Range and Dimensions / Triples

Article Code	Number of pairs/triples Size cross-section in mm²	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
S75S02T0.5BQQBK2	2 x 3 x 0.5	0.55	1.1	11.4	0.30	1.5	16.2	432
S75S04T0.5BQQBK2	4 x 3 x 0.5	0.55	1.1	13.1	0.30	1.5	17.9	525
S75S05T0.5BQQBK2	5 x 3 x 0.5	0.55	1.2	14.7	0.30	1.6	19.7	619
S75S06T0.5BQQBK2	6 x 3 x 0.5	0.55	1.3	16.8	0.30	1.6	22.5	853
S75S08T0.5BQQBK2	8 x 3 x 0.5	0.55	1.3	17.9	0.30	1.7	23.8	953
S75S10T0.5BQQBK2	10 x 3 x 0.5	0.55	1.4	20.4	0.45	1.7	26.3	1110
S75S12T0.5BQQBK2	12 x 3 x 0.5	0.55	1.4	21.1	0.45	1.8	27.2	1194
S75S16T0.5BQQBK2	16 x 3 x 0.5	0.55	1.6	24.4	0.45	1.9	30.7	1434
S75S20T0.5BQQBK2	20 x 3 x 0.5	0.55	1.7	27.1	0.45	2.0	34.3	1895
S75S24T0.5BQQBK2	24 x 3 x 0.5	0.55	1.7	29.3	0.45	2.0	36.5	2163
S75S02T.75BQQBK2	2 x 3 x 0.75	0.55	1.1	12.1	0.30	1.5	16.9	597
S75S04T.75BQQBK2	4 x 3 x 0.75	0.55	1.2	14.2	0.30	1.6	19.2	856
S75S05T.75BQQBK2	5 x 3 x 0.75	0.55	1.2	15.7	0.30	1.6	21.4	1121
S75S06T.75BQQBK2	6 x 3 x 0.75	0.55	1.3	17.8	0.30	1.7	23.7	1322
S75S08T.75BQQBK2	8 x 3 x 0.75	0.55	1.4	19.3	0.30	1.7	25.2	1585
S75S10T.75BQQBK2	10 x 3 x 0.75	0.55	1.5	22.0	0.45	1.8	28.1	1900
S75S12T.75BQQBK2	12 x 3 x 0.75	0.55	1.5	22.7	0.45	1.8	28.8	2079
S75S16T.75BQQBK2	16 x 3 x 0.75	0.55	1.6	26.0	0.45	1.9	33.0	2803
S75S20T.75BQQBK2	20 x 3 x 0.75	0.55	1.7	28.9	0.45	2.0	36.1	3430
S75S24T.75BQQBK2	24 x 3 x 0.75	0.55	1.8	31.5	0.45	2.1	38.9	3989
S75S02T1.0BQQBK2	2 x 3 x 1.0	0.55	1.1	12.8	0.30	1.5	17.6	510
S75S04T1.0BQQBK2	4 x 3 x 1.0	0.55	1.2	15.0	0.30	1.6	20.0	659
S75S05T1.0BQQBK2	5 x 3 x 1.0	0.55	1.3	16.8	0.30	1.6	22.5	903
S75S06T1.0BQQBK2	6 x 3 x 1.0	0.55	1.4	19.1	0.30	1.7	25.0	1021
S75S08T1.0BQQBK2	8 x 3 x 1.0	0.55	1.4	20.5	0.45	1.7	26.4	1199
S75S10T1.0BQQBK2	10 x 3 x 1.0	0.55	1.5	23.4	0.45	1.8	29.5	1409
S75S12T1.0BQQBK2	12 x 3 x 1.0	0.55	1.6	24.4	0.45	1.9	30.7	1514
S75S16T1.0BQQBK2	16 x 3 x 1.0	0.55	1.7	27.8	0.45	2.0	35.0	2133
S75S20T1.0BQQBK2	20 x 3 x 1.0	0.55	1.8	30.9	0.45	2.1	38.3	2470
S75S24T1.0BQQBK2	24 x 3 x 1.0	0.55	1.9	33.6	0.45	2.1	41.0	2816
S75S02T1.3BQQBK2	2 x 3 x 1.3	0.6	1.2	14.1	0.30	1.6	19.1	587
S75S04T1.3BQQBK2	4 x 3 x 1.3	0.6	1.3	16.5	0.30	1.6	22.2	882
S75S05T1.3BQQBK2	5 x 3 x 1.3	0.6	1.3	18.2	0.30	1.7	24.1	1019
S75S06T1.3BQQBK2	6 x 3 x 1.3	0.6	1.4	20.8	0.45	1.8	26.9	1194
S75S08T1.3BQQBK2	8 x 3 x 1.3	0.6	1.5	22.5	0.45	1.8	28.6	1380
S75S10T1.3BQQBK2	10 x 3 x 1.3	0.6	1.6	25.7	0.45	1.9	32.7	1858
S75S12T1.3BQQBK2	12 x 3 x 1.3	0.6	1.6	26.6	0.45	1.9	33.6	2003
S75S16T1.3BQQBK2	16 x 3 x 1.3	0.6	1.8	30.6	0.45	2.1	38.0	2449
S75S20T1.3BQQBK2	20 x 3 x 1.3	0.6	1.9	33.9	0.45	2.1	41.3	2853
S75S24T1.3BQQBK2	24 x 3 x 1.3	0.6	2.0	36.9	0.45	2.3	45.5	3598
S75S02T1.5BQQBK2	2 x 3 x 1.5	0.6	1.2	14.6	0.30	1.6	19.6	619
S75S04T1.5BQQBK2	4 x 3 x 1.5	0.6	1.3	17.0	0.30	1.7	22.9	938
S75S05T1.5BQQBK2	5 x 3 x 1.5	0.6	1.4	19.1	0.30	1.7	25.0	1095
S75S06T1.5BQQBK2	6 x 3 x 1.5	0.6	1.5	21.7	0.45	1.8	27.8	1279
S75S08T1.5BQQBK2	8 x 3 x 1.5	0.6	1.5	23.3	0.45	1.8	29.4	1471
S75S10T1.5BQQBK2	10 x 3 x 1.5	0.6	1.6	26.6	0.45	1.9	33.6	1986
S75S12T1.5BQQBK2	12 x 3 x 1.5	0.6	1.7	27.7	0.45	2.0	34.9	2154
S75S16T1.5BQQBK2	16 x 3 x 1.5	0.6	1.8	31.6	0.45	2.1	39.0	2644
S75S20T1.5BQQBK2	20 x 3 x 1.5	0.6	2.0	35.3	0.45	2.2	43.7	3421
S75S24T1.5BQQBK2	24 x 3 x 1.5	0.6	2.1	38.5	0.45	2.3	47.1	3896
S75S02T0.5BQQBK2	2 x 3 x 0.5	0.55	1.1	11.4	0.30	1.5	16.2	432
S75S04T0.5BQQBK2	4 x 3 x 0.5	0.55	1.1	13.1	0.30	1.5	17.9	525
S75S05T0.5BQQBK2	5 x 3 x 0.5	0.55	1.2	14.7	0.30	1.6	19.7	619
S75S06T0.5BQQBK2	6 x 3 x 0.5	0.55	1.3	16.8	0.30	1.6	22.5	853
S75S08T0.5BQQBK2	8 x 3 x 0.5	0.55	1.3	17.9	0.30	1.7	23.8	953

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Electrical Data at 20 ˚C

Conductor Size mm2	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

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