



• Application

SY control cable is utilized as a control cable in areas necessitating light mechanical protection and where there is a risk to life from fire, smoke emissions, and toxic fumes. These cables are designed for use as connecting cables for measuring, control, and regulation equipment in assembly, production line, and conveyor systems.

• Performance

Voltage Rating: 300/500 Volts

Temperature limits:

Static: -20°C to +80°C

Flexing: -5°C to +70°C

Minimum Bending Radius: As per Manufacturer's Datasheet

Should not be installed at temperatures below -5°C.

• Construction

Conductor: Plain Annealed Stranded Copper Conductors

Insulation: LSZH (Low Smoke Zero Halogen) insulated

Bedding: PVC

Armouring: Galvanized Steel Wire Armour

Sheath: LSZH

Sheath Colour: Gray

Core Identification

2 Core: Black with White numbers

3 core and above: Black with White numbers plus Green/Yellow

Also available with colored cores as follows:

2 Core: Brown Blue

3 Core: Brown Blue Green / Yellow

4 Core: Brown Black Grey Green / Yellow

5 Core: Brown Blue Black Grey Green / Yellow

• Specification

-Generally to BS EN 50525-2-11

-VDE 0250

• Eastful Cable Lab



We have CNAS Accredited Facility to assure conformity assessment services with a focus on quality, expertise, and customer satisfaction.

CNAS has international mutual recognition among IAF, ILAC, APLAC and PAC.

• Accreditation

We meet the requirements of ISO9001, ISO14001, ISO45001 and ISO50001 and our cables have certificate of CCC, RoHS, CASC, UL, cUL, TÜV Rheinland and CCS.



• National Green Factory



Our facility has been awarded of National Green Factory by Ministry of Industry and Information Technology of China. We are committed to the development of high-end, intelligent and green manufacturing industry.

*The overall energy consumption level of green factories is better than the energy efficiency benchmark level.

● Technical Parameters

CCC CODE	Conductor Size	Dimensions			Weight	Outside Diameter	Gland Size
		Stranding	No. Of Cores				
-	-	mm	-		kg/km	mm	mm
SY2X/75	0.75	24/0.20	2		78	7.10	20/16
SY3X/75	0.75	24/0.20	3		91	7.60	20/16
SY4X/75	0.75	24/0.20	4		104	8.30	20/16
SY5X/75	0.75	24/0.20	5		121	8.90	20/16
SY7X/75	0.75	24/0.20	7		135	9.50	20/16
SY12X/75	0.75	24/0.20	12		214	11.90	20S
SY18X/75	0.75	24/0.20	18		293	13.20	20S
SY25X/75	0.75	24/0.20	25		418	13.70	20S
SY34X/75	0.75	24/0.20	34		610	19.00	20
SY2X1	1	32/0.20	2		85	7.70	20/16
SY3X1	1	32/0.20	3		95	8.20	20/16
SY4X1	1	32/0.20	4		120	9.00	20/16
SY5X1	1	32/0.20	5		123	9.20	20/16
SY7X1	1	32/0.20	7		171	10.10	20/16
SY12X1	1	32/0.20	12		276	12.90	20S
SY18X1	1	32/0.20	18		382	15.00	20
SY25X1	1	32/0.20	25		437	17.90	20
SY34X1	1	32/0.20	34		556	20.00	20
SY50X1	1	32/0.20	50		955	23.70	25
SY2X1/5	1.5	30/0.25	2		100	8.20	20/16
SY3X1/5	1.5	30/0.25	3		143	8.60	20/16
SY4X1/5	1.5	30/0.25	4		170	9.30	20/16
SY5X1/5	1.5	30/0.25	5		173	10.00	20/16
SY7X1/5	1.5	30/0.25	7		198	10.70	20/16
SY12X1/5	1.5	30/0.25	12		341	13.80	20S
SY18X1/5	1.5	30/0.25	18		490	16.40	20
SY25X1/5	1.5	30/0.25	25		606	19.20	20
SY34X1/5	1.5	30/0.25	34		835	21.60	25
SY50X1/5	1.5	30/0.25	50		1046	23.80	25
SY2X2/5	2.5	50/0.25	2		177	9.80	20/16
SY3X2/5	2.5	50/0.25	3		190	9.90	20/16
SY4X2/5	2.5	50/0.25	4		240	10.80	20/16
SY5X2/5	2.5	50/0.25	5		247	11.50	20S
SY7X2/5	2.5	50/0.25	7		327	13.00	20S
SY12X2/5	2.5	50/0.25	12		502	16.90	20
SY18X2/5	2.5	50/0.25	18		740	19.80	20
SY25X2/5	2.5	50/0.25	25		1065	23.20	25
SY34X2/5	2.5	50/0.25	34		1126	24.30	25

CCC CODE	Nominal Cross Section Area	Dimensions		Weight	Outside Diameter	Gland Size
		Stranding	No. Of Cores			
-	mm ²	mm	-	kg/km	mm	mm
SY3X4	4	56/0.30	3	323	12.2	20S
SY4X4	4	56/0.30	4	354	13.4	20S
SY5X4	4	56/0.30	5	392	15	20
SY7X4	4	56/0.30	7	486	16	20
SY3X6	6	84/0.30	3	343	13.4	20S
SY4X6	6	84/0.30	4	458	14.6	20S
SY5X6	6	84/0.30	5	572	16.7	20
SY7X6	6	84/0.30	7	640	18	20
SY3X10	10	80/0.40	3	563	17.3	20
SY4X10	10	80/0.40	4	776	19.1	20
SY5X10	10	80/0.40	5	855	21	25
SY3X16	16	126/0.40	3	813	20.5	25
SY4X16	16	126/0.40	4	900	22.4	25
SY5X16	16	126/0.40	5	1258	25.2	25
SY4X25	25	196/0.40	4	1597	28.2	32
SY5X25	25	196/0.40	5	2007	31.2	40
SY4X35	35	276/0.40	4	2046	31.3	40
SY5X35	35	276/0.40	5	2524	34.3	40
SY4X50	50	396/0.40	4	2888	37	40
SY4X70	70	356/0.50	4	4015	41.2	50S
SY4X95	95	485/0.50	4	5176	47.8	50

Current Capacity & Conductor Resistance		
Nominal Cross Section Area	Current Carry Capacity at 300°C in Air	Max. Resistance Conductor at 200°C
mm ²	A	Ω/km
1	15	19.5
1.5	18	13.3
2.5	26	7.98
4	34	4.95
6	44	3.3
10	61	1.91
16	82	1.21
25	108	0.78
35	135	0.554
50	168	0.386
70	207	0.272
95	223	0.260

Voltage Drop							
Nominal Cross Section Area	Two Core Cable D.C.	Single Phase Two Core Cable A.C. Three Phase 3 Or 4 Core Cable A.C.					
mm ²	mV/A/m	mV/A/m			mV/A/m		
1.5	29	29			25		
2.5	18	18			15		
4	11	11			9.5		
6	7.3	7.3			6.4		
10	4.4	4.4			3.8		
16	2.8	2.8			2.4		
		r	x	z	r	x	z
25	1.75	1.75	0.170	1.75	1.50	0.145	1.50
35	1.25	1.25	0.165	1.25	1.10	0.145	1.10
50	0.93	0.93	0.165	0.94	0.80	0.140	0.81
70	0.63	0.63	0.160	0.65	0.55	0.140	0.57
95	0.46	0.47	0.155	0.41	0.41	0.135	0.43

The above is in accordance with 18th edition of IET wiring regulations

The information contained within this datasheet is for guidance only and is subject to change without notice or liability. We believe the information is correct at the time of publication. Please note when selecting cable accessories that actual cable dimensions may vary due to manufacturing tolerances