Application

YY Control Cable is used as a control cable on conveyors, assembly, and production lines. Primarily used indoors as an interconnecting cable in signal and control equipment. These cables are not UV resistant but can be utilized outdoors if adequately protected from direct sunlight in trunking, etc.

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: PVC
Sheath: Transparent PVC
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 Rhineland 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	Dimensions					
	Nominal Cross Section Area	Stranding	No. Of Cores	Weight	Outside Diameter	Gland Size
-	mm^2	mm	-	kg/km	mm	mm
YY2X/50	0.50	16/0.20	2	35	4.9	20/16
YY3X/50	0.50	16/0.20	3	44	5.3	20/16
YY4X/50	0.50	16/0.20	4	53	5.9	20/16
YY5X/50	0.50	16/0.20	5	68	6.4	20/16
YY7X/50	0.50	16/0.20	7	90	7.9	20/16
YY9X/50	0.50	16/0.20	9	100	8.3	20/16
YY10X/50	0.50	16/0.20	10	114	8.6	20/16
YY12X/50	0.50	16/0.20	12	131	9.1	20/16
YY14X/50	0.50	16/0.20	14	148	9.6	20/16
YY16X/50	0.50	16/0.20	16	167	10.2	20/16
YY18X/50	0.50	16/0.20	18	186	10.8	20S
YY20X/50	0.50	16/0.20	20	224	11.6	20S
YY2X/75	0.75	24/0.20	2	46	5.60	20/16
YY3X/75	0.75	24/0.20	3	52	5.70	20/16
YY4X/75	0.75	24/0.20	4	64	6.20	20/16
YY5X/75	0.75	24/0.20	5	77	7.00	20/16
YY7X/75	0.75	24/0.20	7	95	7.30	20/16
YY12X/75	0.75	24/0.20	12	155	9.50	20S
YY25X/75	0.75	24/0.20	25	305	13.20	20
YY34X/75	0.75	24/0.20	34	460	16.70	25
YY50X/75	0.75	24/0.20	50	578	18.40	25
YY65X/75	0.75	24/0.20	65	850	23.50	32
YY2X1	1	32/0.20	2	55	6.00	20/16
YY3X1	1	32/0.20	3	66	6.10	20/16
YY4X1	1	32/0.20	4	82	6.70	20/16
YY5X1	1	32/0.20	5	93	7.50	20/16
YY7X1	1	32/0.20	7	121	8.10	20S
YY12X1	1	32/0.20	12	200	11.00	20S
YY18X1	1	32/0.20	18	318	12.70	20
YY25X1	1	32/0.20	25	415	15.50	25
YY34X1	1	32/0.20	34	575	18.30	25
YY41X1	1	32/0.20	41	665	19.00	25
YY50X1	1	32/0.20	50	815	21.30	32
YY65X1	1	32/0.20	65	1055	25.60	32
YY2X1/5	1.5	30/0.25	2	69	6.60	20/16
YY3X1/5	1.5	30/0.25	3	87	7.00	20/16
YY4X1/5	1.5	30/0.25	4	110	7.60	20/16
YY5X1/5	1.5	30/0.25	5	124	8.10	20S

CCC CODE	Nominal Cross Section Area	Stranding	No. Of Cores	Weight	Outside Diameter	Gland Size
-	mm^2	mm	-	kg/km	mm	mm
YY7X1/5	1.5	30/0.25	7	176	9.20	20S
YY8X1/5	1.5	30/0.25	8	230	11.20	20
YY10X1/5	1.5	30/0.25	10	265	12.40	20
YY12X1/5	1.5	30/0.25	12	290	13.10	20
YY18X1/5	1.5	30/0.25	18	424	14.80	25
YY25X1/5	1.5	30/0.25	25	565	18.00	25
YY34X1/5	1.5	30/0.25	34	775	21.00	32
YY50X1/5	1.5	30/0.25	50	1095	24.30	32
YY65X1/5	1.5	30/0.25	65	1390	28.80	40
YY2X2/5	2.5	50/0.25	2	106	7.80	20/16
YY3X2/5	2.5	50/0.25	3	126	8.10	20S
YY4X2/5	2.5	50/0.25	4	159	8.90	20S
YY5X2/5	2.5	50/0.25	5	178	9.70	20S
YY7X2/5	2.5	50/0.25	7	272	11.10	20S
YY8X2/5	2.5	50/0.25	8	350	13.50	20
YY12X2/5	2.5	50/0.25	12	403	13.80	20
YY18X2/5	2.5	50/0.25	18	597	17.50	25
YY25X2/5	2.5	50/0.25	25	885	22.00	32
YY34X2/5	2.5	50/0.25	34	1220	25.80	32
YY3X4	4	56/0.30	3	201	10.40	20S
YY4X4	4	56/0.30	4	283	10.70	20S
YY5X4	4	56/0.30	5	293	12.40	20
YY7X4	4	56/0.30	7	413	14.00	25
YY3X6	6	84/0.30	3	273	11.50	20
YY4X6	6	84/0.30	4	352	12.80	20
YY5X6	6	84/0.30	5	415	14.60	25
YY7X6	6	84/0.30	7	537	15.20	25
YY3X10	10	80/0.40	3	466	15.30	25
YY4X10	10	80/0.40	4	631	16.50	25
YY5X10	10	80/0.40	5	720	18.60	25
YY3X16	16	126/0.40	3	697	18.40	25
YY4X16	16	126/0.40	4	767	19.90	32
YY5X16	16	126/0.40	5	1151	22.40	32
YY3X25	25	196/0.40	3	930	21.50	32
YY4X25	25	196/0.40	4	1150	22.50	32
YY5X25	25	196/0.40	5	1679	27.90	40
YY4X35	35	276/0.40	4	1970	29.00	40
YY5X35	35	276/0.40	5	2206	31.30	40
YY4X50	50	396/0.40	4	2700	34.00	50S

Current Capacity & Conductor Resistance		
Nominal Cross Section Area	Current Carry Capacity at 300℃ in Air	Max. Resistance Conductor at 200℃
mm^2	A	Ω/km
0.5	9	39
0.75	12	26
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

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	44	44	38
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
25	1.75	1.75	1.50
35	1.25	1.25	1.10

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