



Flex Control Cable

Specializing in designing, manufacturing cables
and providing customized services for our customers



LiYY Control Cable/ Data Cable



Application:

This cable can be used for signal transmission between electronic devices, in computer systems or process control units.

Cable Standards:

DIN VDE 0812
Flame Retardant according to: IEC 60332-1

Product Description:

Conductor	Bare copper strands with reference to VDE 0812
Insulation	PVC, TI2 acc. to EN 50363-3, VDE 0207-363-3
Colour code	With reference to DIN 47100
Sheath material	PVC, TM2 acc. to EN 50363-4-1, VDE 0207-363-4-1
Sheath colour	Grey (RAL 7032)

Characteristics:

Peak operating voltage	< 0.25 mm ² = max. 350 V ≥ 0.25 mm ² = max. 500 V
Testing voltage	core/core 1500 V
Min. bending radius	
fixed laying:	5 x d
flexible application:	10 x d
Temperature range	
fixed laying:	-30/+70 °C
flexible application:	-5/+70 °C
Fire performance	flame retardant and self-extinguishing acc. to IEC 60332-1-2 , VDE 0482-332-1-2

Core Identification:

Core 1: White		Core 9: Black		Core 17: White/Grey	
Core 2: Brown		Core 10: Violet		Core 18: Grey/Brown	
Core 3: Green		Core 11: Grey/Pink		Core 19: White/Pink	
Core 4: Yellow		Core 12: Red/Blue		Core 20: Pink/Brown	
Core 5: Grey		Core 13: White/Green		Core 21: White/Blue	
Core 6: Pink		Core 14: Brown/Green		Core 22: Brown/Blue	
Core 7: Blue		Core 15: White/Yellow		Core 23: White/Red	
Core 8: Red		Core 16: Yellow/Brown		Core 24: Brown/Red	

**Dimensions:**

Zion Code	No. Of Cores	Cross Section	Outer- ϕ \pm 5% mm	Copper Figure kg/km	Cable Weight \approx kg/km
LiYY0214	2	0.14	3.1	2.7	13.0
LiYY0314	3	0.14	3.3	4.0	15.0
LiYY0414	4	0.14	3.5	5.4	17.0
LiYY0514	5	0.14	3.8	6.7	21.0
LiYY0614	6	0.14	4.1	8.1	25.0
LiYY0714	7	0.14	4.1	9.4	25.0
LiYY0814	8	0.14	4.7	10.8	33.0
LiYY1014	10	0.14	5.1	13.4	34.0
LiYY1214	12	0.14	5.3	16.1	39.0
LiYY1414	14	0.14	5.5	18.8	44.0
LiYY1614	16	0.14	6.0	21.5	53.0
LiYY1814	18	0.14	6.3	24.2	59.0
LiYY2014	20	0.14	6.6	26.9	65.0
LiYY2114	21	0.14	6.9	28.2	69.0
LiYY2414	24	0.14	7.3	32.3	73.0
LiYY0325	3	0.25	3.6	7.2	20.0
LiYY0425	4	0.25	3.9	9.6	24.0
LiYY0525	5	0.25	4.2	12.0	29.0
LiYY0625	6	0.25	4.6	14.4	34.0
LiYY0725	7	0.25	4.6	16.8	35.0
LiYY0825	8	0.25	5.2	19.2	45.0
LiYY0925	9	0.25	5.6	21.6	51.0
LiYY1025	10	0.25	5.9	24.0	51.0
LiYY1225	12	0.25	6.1	28.8	58.0
LiYY1425	14	0.25	6.4	33.6	66.0
LiYY1625	16	0.25	6.7	38.4	74.0
LiYY1825	18	0.25	7.1	43.2	83.0
LiYY2025	20	0.25	7.6	48.0	95.0
LiYY2125	21	0.25	7.9	50.4	100.0
LiYY2425	24	0.25	8.4	57.6	108.0
LiYY0234	2	0.34	4.0	6.5	23.0
LiYY0334	3	0.34	4.2	9.8	27.0
LiYY0434	4	0.34	4.6	13.1	33.0
LiYY0534	5	0.34	5.0	16.3	41.0
LiYY0634	6	0.34	5.5	19.6	49.0
LiYY0734	7	0.34	5.5	22.8	51.0
LiYY0834	8	0.34	6.5	26.1	67.0
LiYY1034	10	0.34	7.1	32.6	72.0
LiYY1234	12	0.34	7.3	39.2	83.0
LiYY1434	14	0.34	7.9	45.7	98.0
LiYY1634	16	0.34	8.3	52.2	111.0
LiYY1834	18	0.34	8.8	58.8	124.0
LiYY2034	20	0.34	9.2	65.3	137.0
LiYY2134	21	0.34	10.0	68.5	153.0
LiYY2434	24	0.34	10.6	78.3	165.0



Dimensions:

Zion Code	No. Of Cores	Cross Section	Outer- ϕ \pm 5% mm	Copper Figure kg/km	Cable Weight \approx kg/km
LiYY0250	2	0.50	4.3	9.6	27.0
LiYY0350	3	0.50	4.5	14.4	33.0
LiYY0450	4	0.50	4.9	19.2	40.0
LiYY0550	5	0.50	5.4	24.0	50.0
LiYY0650	6	0.50	6.1	28.8	62.0
LiYY0750	7	0.50	6.1	33.6	65.0
LiYY0850	8	0.50	7.1	38.4	83.0
LiYY1050	10	0.50	7.9	48.0	92.0
LiYY1250	12	0.50	8.1	57.6	106.0
LiYY1450	14	0.50	8.5	67.2	120.0
LiYY1650	16	0.50	9.0	76.8	137.0
LiYY1850	18	0.50	9.5	86.4	152.0
LiYY2050	20	0.50	10.4	96.0	178.0
LiYY2150	21	0.50	10.9	100.8	189.0
LiYY2450	24	0.50	11.5	115.2	203.0
LiYY0275	2	0.75	4.9	14.4	37.0
LiYY0375	3	0.75	5.2	21.6	45.0
LiYY0475	4	0.75	5.9	28.8	58.0
LiYY0575	5	0.75	6.4	36.0	71.0
LiYY0675	6	0.75	7.0	43.2	84.0
LiYY0775	7	0.75	7.0	50.4	89.0
LiYY0875	8	0.75	8.3	57.6	116.0
LiYY1075	10	0.75	9.1	72.0	127.0
LiYY1275	12	0.75	9.4	86.4	146.0
LiYY1475	14	0.75	10.3	100.8	175.0
LiYY1675	16	0.75	10.8	115.2	198.0
LiYY1875	18	0.75	11.4	129.6	221.0
LiYY2175	21	0.75	12.5	151.2	260.0
LiYY2475	24	0.75	13.3	172.8	280.0
LiYY02100	2	1.00	5.1	19.2	43.0
LiYY03100	3	1.00	5.4	28.8	54.0
LiYY04100	4	1.00	6.1	38.4	70.0
LiYY05100	5	1.00	6.7	48.0	87.0
LiYY06100	6	1.00	7.3	57.6	103.0
LiYY07100	7	1.00	7.3	67.2	110.0
LiYY02150	2	1.50	5.6	28.8	54.0
LiYY03150	3	1.50	6.1	43.2	70.0
LiYY04150	4	1.50	6.7	57.6	87.0
LiYY05150	5	1.50	7.7	72.0	115.0
LiYY06150	6	1.50	8.4	86.4	136.0
LiYY07150	7	1.50	8.4	100.8	146.0



LiYCY Control Cable/ Data Cable



Application:

LiYCY cable can be used for signal transmission between electronic devices, in computer systems or process control units with increased electromagnetic compatibility requirements.

Cable Standards:

VDE 0482-332-1-2, EN 60811-2-
Fire Retardant according to: IEC 60332-1

Product Description:

Conductor	Bare copper strands with reference to VDE 0812
Insulation	PVC, TI2 acc. to EN 50363-3, VDE 0207-363-3
Colour code	With reference to DIN 47100
Stranding	In layers
Wrapping	PETP foil
Screen	Tinned copper braiding
Sheath material	PVC, TM2 acc. to EN 50363-4-1, VDE 0207-363-4-1
Sheath colour	Grey (RAL 7032)

Characteristics:

Peak operating voltage	< 0.25 mm ² = max. 350 V
Testing voltage	core/core 1500 Vcore/screen 1200 V
Min. bending	
fixed laying:	5 x d
flexible	10 x d
Temperature range	
fixed laying:	-30/+70 °C
flexible	-5/+70 °C
Fire performance	flame retardant and self-extinguishing acc. to IEC 60332-1-2 , VDE 0482-332-1-2

Core Identification:

2 Core:	White	Brown				
3 Core:	White	Brown	Green			
4 Core:	White	Brown	Green	Yellow		
5 Core:	White	Brown	Green	Yellow	Grey	
6 Core:	White	Brown	Green	Yellow	Grey	Pink

Larger sizes: 6 Core colours + following colours in addition

7 Core:	Blue				
8 Core:	Red				
10 Core:	Black	Violet			
12 Core:	Grey/Pink	Red/Blue			
14 Core:	White/Green	Brown/Green			
15 Core:	White/Yellow				
16 Core:	Yellow/Brown				
18 Core:	White/Grey	Grey/Brown			
20 Core:	White/Pink	Pink/Brown			
21 Core:	White/Blue				
24 Core:	Brown/Blue	White/Red	Brown/Red		
25 Core:	White/Black	Grey/Green	Yellow/Grey	Pink/Green	Yellow/Pink



Dimensions:

Zion Code	No. Of Cores	Cross Section	Outer- ϕ \pm 5% mm	Copper Figure kg/km	Cable Weight \approx kg/km
3150214	2	0.14	3.6	12.6	18.0
3150314	3	0.14	3.8	14.1	21.0
3150414	4	0.14	4.0	15.9	24.0
3150514	5	0.14	4.3	19.5	29.0
3150614	6	0.14	4.6	22.0	33.0
3150714	7	0.14	4.6	24.0	33.0
3150814	8	0.14	5.4	26.0	44.0
3151014	10	0.14	5.8	29.0	47.0
3151214	12	0.14	6.2	32.0	55.0
3151414	14	0.14	6.4	35.0	61.0
3151614	16	0.14	6.7	49.0	69.0
3151814	18	0.14	7.0	54.0	75.0
3152014	20	0.14	7.3	58.0	82.0
3152114	21	0.14	7.6	60.0	87.0
3152414	24	0.14	8.0	74.0	92.0
3150125	1	0.25	2.7	8.0	13.0
3150225	2	0.25	3.9	15.0	23.0
3150325	3	0.25	4.1	18.0	26.0
3150425	4	0.25	4.4	22.0	31.0
3150525	5	0.25	4.9	25.0	38.0
3150625	6	0.25	5.3	30.0	45.0
3150725	7	0.25	5.3	32.0	46.0
3150825	8	0.25	6.1	35.0	59.0
3150925	9	0.25	6.5	39.0	67.0
3151025	10	0.25	6.6	42.0	65.0
3151225	12	0.25	6.8	50.0	73.0
3151425	14	0.25	7.1	64.0	81.0
3151525	15	0.25	7.4	68.0	90.0
3151625	16	0.25	7.4	71.0	91.0
3151825	18	0.25	7.8	80.0	102.0
3152025	20	0.25	8.5	96.0	117.0
3152125	21	0.25	8.8	10.5	125.0
3152425	24	0.25	9.3	11.5	133.0
3150234	2	0.34	4.5	17.0	29.0
3150334	3	0.34	4.9	21.0	35.0
3150434	4	0.34	5.3	25.0	43.0
3150534	5	0.34	5.7	30.0	52.0
3150634	6	0.34	6.4	37.0	64.0
3150734	7	0.34	6.4	42.0	65.0
3150834	8	0.34	7.2	45.0	81.0
3151034	10	0.34	7.8	63.0	89.0
3151234	12	0.34	8.0	70.0	100.0
3151434	14	0.34	8.8	78.0	121.0
3151634	16	0.34	9.2	87.0	134.0
3151834	18	0.34	9.7	108.0	150.0
3152034	20	0.34	10.1	124.0	163.0
3152134	21	0.34	10.7	127.0	185.0
3152434	24	0.34	11.3	140.0	200.0



Dimensions:

Zion Code	No. Of Cores	Cross Section	Outer- ϕ \pm 5% mm	Copper Figure kg/km	Cable Weight \approx kg/km
3150150	1	0.50	3.2	13.3	19.0
3150250	2	0.50	5.0	23.5	36.0
3150350	3	0.50	5.2	28.4	42.0
3150450	4	0.50	5.6	35.1	51.0
3150550	5	0.50	6.3	41.6	64.0
3150650	6	0.50	6.8	48.3	75.0
3150750	7	0.50	6.8	53.1	78.0
3150850	8	0.50	7.8	62.0	99.0
3151050	10	0.50	8.8	74.5	115.0
3151250	12	0.50	9.0	84.2	128.0
3151450	14	0.50	9.4	93.5	143.0
3151650	16	0.50	9.9	105.9	162.0
3151850	18	0.50	10.6	133.9	191.0
3152050	20	0.50	11.1	143.8	208.0
3152150	21	0.50	11.6	154.9	224.0
3152450	24	0.50	12.6	169.7	248.0
3150175	1	0.75	3.5	15.7	22.0
3150275	2	0.75	5.6	30.3	45.0
3150375	3	0.75	6.1	37.6	56.0
3150475	4	0.75	6.6	46.5	68.0
3150575	5	0.75	7.1	55.7	83.0
3150675	6	0.75	7.7	66.8	99.0
3150775	7	0.75	7.7	74.0	103.0
3150875	8	0.75	9.2	83.8	136.0
3151075	10	0.75	10.0	101.0	150.0
3151275	12	0.75	10.5	133.9	183.0
3151475	14	0.75	11.0	148.5	203.0
3151675	16	0.75	11.5	169.2	231.0
3151875	18	0.75	12.4	184.0	264.0
3152175	21	0.75	13.6	211.0	307.0
3152475	24	0.75	14.4	239.1	333.0
3150180	1	1.00	3.6	18.2	25.0
3150280	2	1.00	5.8	35.2	50.0
3150380	3	1.00	6.3	46.4	64.0
3150480	4	1.00	6.8	57.9	79.0
3150580	5	1.00	7.4	69.6	96.0
3150680	6	1.00	8.0	81.3	113.0
3150780	7	1.00	8.0	90.9	120.0
3150185	1	1.50	3.8	24.7	31.0
3150285	2	1.50	6.5	46.5	68.0
3150385	3	1.50	6.8	62.7	79.0
3150485	4	1.50	7.4	79.2	98.0
3150585	5	1.50	8.6	95.8	131.0
3150685	6	1.50	9.3	112.7	155.0
3150785	7	1.50	9.3	127.1	164.0



LiYY TP Control Cable / Data Cable



Application:

To be installed in dry and humid rooms and used as a termination and connection cable in the control, measuring and signal technology.

Cable Standards:

DIN VDE 0812

Flame Retardant according to: IEC/EN 60332-1-2

Product Description:

Conductor	Bare copper strands with reference to VDE 0812
Insulation	PVC, TI2 acc. to EN 50363-3, VDE 0207-363-3
Colour code	With reference to DIN 47100
Stranding	Cores twisted to pairs, pairs twisted in layers
Wrapping	PETP foil
Sheath material	PVC, TM2 acc. to EN 50363-4-1, VDE 0207-363-4-1
Sheath colour	Grey (RAL 7032)

Characteristics:

Peak operating voltage	< 0.25 mm ² = max. 350 V ≥ 0.25 mm ² = max. 500 V
Testing voltage	core/core 1500 V
Min. bending radius	fixed laying: 5 x d flexible application: 10 x d
Temperature range	fixed laying: -30/+70 °C flexible application: -5/+70 °C
Fire performance	flame retardant and self-extinguishing acc. to IEC 60332-1-2 , VDE 0482-332-1-2

Core Identification:

Pair 1:	White		Brown	
Pair 2:	Green		Yellow	
Pair 3:	Grey		Pink	
Pair 4:	Blue		Red	
Pair 5:	Black		Violet	
Pair 6:	Grey/Pink		Red/Blue	
Pair 7:	White/Green		Brown/Green	
Pair 8:	White/Yellow		Yellow/Brown	
Pair 9:	White/Grey		Grey/Brown	
Pair 10:	White/Pink		Pink/Brown	



Dimensions:

Zion Code	No. Of Cores	Cross Section	Outer- ϕ \pm 5% mm	Copper Figure kg/km	Cable Weight \approx kg/km
LiYYTP0314	3 x 2	0.14	4.9	8.1	27.0
LiYYTP0414	4 x 2	0.14	5.5	10.8	34.0
LiYYTP0514	5 x 2	0.14	6.2	13.4	43.0
LiYYTP0614	6 x 2	0.14	6.4	16.1	50.0
LiYYTP0814	8 x 2	0.14	7.0	21.5	59.0
LiYYTP1014	10 x 2	0.14	7.7	26.9	71.0
LiYYTP1214	12 x 2	0.14	8.9	32.3	87.0
LiYYTP1414	14 x 2	0.14	9.4	37.6	98.0
LiYYTP1614	16 x 2	0.14	9.7	43.0	110.0
LiYYTP0225	2 x 2	0.25	4.9	9.6	27.0
LiYYTP0325	3 x 2	0.25	5.4	14.4	36.0
LiYYTP0425	4 x 2	0.25	6.4	19.2	50.0
LiYYTP0525	5 x 2	0.25	6.9	24.0	57.0
LiYYTP0625	6 x 2	0.25	7.1	28.8	65.0
LiYYTP0725	7 x 2	0.25	7.3	33.6	71.0
LiYYTP0825	8 x 2	0.25	7.8	38.4	80.0
LiYYTP1025	10 x 2	0.25	9.0	48.0	108.0
LiYYTP1225	12 x 2	0.25	9.9	57.6	121.0
LiYYTP1425	14 x 2	0.25	10.5	67.2	134.0
LiYYTP1625	16 x 2	0.25	10.9	76.8	152.0
LiYYTP0234	2 x 2	0.34	5.8	13.1	37.0
LiYYTP0334	3 x 2	0.34	6.6	19.6	53.0
LiYYTP0434	4 x 2	0.34	7.6	26.1	70.0
LiYYTP0534	5 x 2	0.34	8.7	32.6	92.0
LiYYTP0634	6 x 2	0.34	8.9	39.2	104.0
LiYYTP0734	7 x 2	0.34	9.2	45.7	105.0
LiYYTP0834	8 x 2	0.34	9.8	52.2	118.0
LiYYTP1034	10 x 2	0.34	10.8	65.3	142.0
LiYYTP1234	12 x 2	0.34	12.4	78.3	178.0
LiYYTP1434	14 x 2	0.34	13.1	91.4	201.0
LiYYTP0250	2 x 2	0.50	6.4	19.2	47.0
LiYYTP0350	3 x 2	0.50	7.1	28.8	64.0
LiYYTP0450	4 x 2	0.50	8.6	38.4	87.0
LiYYTP0550	5 x 2	0.50	9.4	48.0	105.0
LiYYTP0650	6 x 2	0.50	9.6	57.6	120.0
LiYYTP0750	7 x 2	0.50	9.9	67.2	128.0
LiYYTP0850	8 x 2	0.50	10.6	76.8	146.0
LiYYTP1050	10 x 2	0.50	11.8	96.0	174.0
LiYYTP1250	12 x 2	0.50	13.4	115.2	216.0
LiYYTP1450	14 x 2	0.50	14.6	134.4	259.0
LiYYTP0275	2 x 2	0.75	7.3	28.8	63.0
LiYYTP0375	3 x 2	0.75	8.6	43.2	87.0
LiYYTP0475	4 x 2	0.75	9.9	57.6	118.0
LiYYTP0575	5 x 2	0.75	10.7	72.0	140.0
LiYYTP0675	6 x 2	0.75	11.1	86.4	164.0
LiYYTP0775	7 x 2	0.75	11.4	100.8	173.0
LiYYTP0875	8 x 2	0.75	12.7	115.2	207.0
LiYYTP1075	10 x 2	0.75	14.0	144.0	251.0
LiYYTP1275	12 x 2	0.75	15.9	172.8	309.0
LiYYTP1475	14 x 2	0.75	16.8	201.6	351.0



LiYCY TP Control Cable-Data Cable



Application:

To be installed in dry and humid rooms and used as a termination and connection cable in the control, measuring and signal technology.

Cable Standards:

DIN VDE 0812

Flame Retardant according to: IEC/EN 60332-1-2

Product Description:

Conductor	Bare copper strands with reference to VDE 0812
Insulation	PVC, TI2 acc. to EN 50363-3, VDE 0207-363-3
Colour code	With reference to DIN 47100
Stranding	Cores twisted to pairs, pairs twisted in layers
Wrapping	PETP foil
Sheath material	PVC, TM2 acc. to EN 50363-4-1, VDE 0207-363-4-1
Sheath colour	Grey (RAL 7032)

Characteristics:

Peak operating voltage	< 0.25 mm ² = max. 350 V ≥ 0.25 mm ² = max. 500 V
Testing voltage	core/core 1500 V
Min. bending radius	
fixed laying:	5 x d
flexible application:	10 x d
Temperature range	
fixed laying:	-30/+70 °C
flexible application:	-5/+70 °C
Fire performance	flame retardant and self-extinguishing acc. to IEC 60332-1-2 , VDE 0482-332-1-2

Core Identification:

Pair 1:	White		Brown	
Pair 2:	Green		Yellow	
Pair 3:	Grey		Pink	
Pair 4:	Blue		Red	
Pair 5:	Black		Violet	
Pair 6:	Grey/Pink		Red/Blue	
Pair 7:	White/Green		Brown/Green	
Pair 8:	White/Yellow		Yellow/Brown	
Pair 9:	White/Grey		Grey/Brown	
Pair 10:	White/Pink		Pink/Brown	



Zion Code	No. Of Cores	Cross Section	Outer- ϕ \pm 5% mm	Copper Figure kg/km	Cable Weight \approx kg/km
LiYCY0214	2 x 2	0.14	5.2	19.1	34.0
LiYCY0314	3 x 2	0.14	5.7	23.4	41.0
LiYCY0414	4 x 2	0.14	6.5	27.8	53.0
LiYCY0514	5 x 2	0.14	7.0	31.9	60.0
LiYCY0614	6 x 2	0.14	7.2	36.2	68.0
LiYCY0814	8 x 2	0.14	7.8	43.4	80.0
LiYCY1014	10 x 2	0.14	8.9	50.6	100.0
LiYCY1214	12 x 2	0.14	9.7	58.2	111.0
LiYCY1614	16 x 2	0.14	10.5	71.4	136.0
LiYCY0234	2 x 2	0.34	6.8	31.5	57.0
LiYCY0334	3 x 2	0.34	7.4	39.7	72.0
LiYCY0434	4 x 2	0.34	8.8	49.8	99.0
LiYCY0534	5 x 2	0.34	9.5	58.5	116.0
LiYCY0634	6 x 2	0.34	9.7	65.1	128.0
LiYCY0834	8 x 2	0.34	10.6	80.7	144.0
LiYCY1234	12 x 2	0.34	13.4	133.1	225.0
LiYCY1634	16 x 2	0.34	14.6	165.0	280.0
LiYCY0250	2 x 2	0.50	7.2	39.3	66.0
LiYCY0350	3 x 2	0.50	7.9	50.1	84.0
LiYCY0650	6 x 2	0.50	10.4	86.0	146.0
LiYCY0850	8 x 2	0.50	10.9	111.5	166.0
LiYCY1050	10 x 2	0.50	13.2	146.5	229.0
LiYCY1250	12 x 2	0.50	14.4	175.7	268
LiYCY1650	16 x 2	0.50	16.3	241.3	368.0
LiYCY0275	2 x 2	0.75	8.5	52.4	92.0
LiYCY0375	3 x 2	0.75	9.4	69.4	112.0
LiYCY0675	6 x 2	0.75	12.5	136.5	218.0
LiYCY1275	12 x 2	0.75	17.1	261.2	385.0
LiYCY1675	16 x 2	0.75	18.6	329.9	482.0



YY PVC Control Cable



Application:

YY control cable for instrumentation and control equipment, for tooling machinery production lines, and in flexible applications for free movement without tensile load. Suitable in dry, ambient and wet rooms. These indoor cables are not used for external or underground installation.

Cable Standards:

VDE 0207-363-3, VDE 819-102 (TM54)

Flame Retardant according to IEC/EN 60332-1-2

Product Description:

Conductor	Class 5 flexible plain copper
Insulation	PVC, TI2 acc. to EN 50363-3, VDE 0207-363-3
Sheath material	PVC, TM54 acc. to VDE 819-102(TM54)

Characteristics:

Voltage Rating Uo/U	300/500V
Temperature Rating	Fixed: -40°C to +80°C
	Flexed: -5°C to +70°C
Minimum Bending Radius	Fixed: 4 x overall diameter
	Flexed: 12.5 x overall diameter

Core Identification:

2 Core: Black with White numbers

3 Core and above Black with White numbers

Numbers plus Green/Yellow

Also available with coloured cores as follows:

2 Core: Blue Brown

3 Core: Blue Brown Green/Yellow

4 Core: Brown Black Grey Green/Yellow

5 Core: Blue Brown Black Grey Green/Yellow

7 Core: Blue Brown Black Grey White Red Green/Yellow

Should not be installed at temperatures below -5°C



Dimensions:

Zion Code	Conductor Size (mm ²)	Stranding (mm)	No. Of Cores	Weight (kg/km)	Outside Diameter (mm)	Gland Size (mm)
YY0275V	0.75	24/0.20	2	46.0	5.6	20/16
YY0375	0.75	24/0.20	3	52.0	5.7	20/16
YY0475V	0.75	24/0.20	4	64.0	6.2	20/16
YY0575V	0.75	24/0.20	5	77.0	7.0	20/16
YY0775V	0.75	24/0.20	7	95.0	7.3	20/16
YY1275V	0.75	24/0.20	12	155.0	9.5	20S
YY2575V	0.75	24/0.20	25	305.0	13.2	20.0
YY3475V	0.75	24/0.20	34	460.0	16.7	25.0
YY5075V	0.75	24/0.20	50	578.0	18.4	25.0
YY6575V	0.75	24/0.20	65	850.0	23.5	32.0
YY021V	1	32/0.20	2	55.0	6.0	20/16
YY031V	1	32/0.20	3	66.0	6.1	20/16
YY041V	1	32/0.20	4	82.0	6.7	20/16
YY051V	1	32/0.20	5	93.0	7.5	20/16
YY071V	1	32/0.20	7	121.0	8.1	20S
YY121V	1	32/0.20	12	200.0	11.0	20S
YY181V	1	32/0.20	18	318.0	12.7	20.0
YY251V	1	32/0.20	25	415.0	15.5	25.0
YY341V	1	32/0.20	34	575.0	18.3	25.0
YY411V	1	32/0.20	41	665.0	19.0	25.0
YY501V	1	32/0.20	50	815.0	21.3	32.0
YY651V	1	32/0.20	65	1055.0	25.6	32.0
YY21/5V	1.5	30/0.25	2	69.0	6.6	20/16
YY31/5V	1.5	30/0.25	3	87.0	7.0	20/16
YY41/5V	1.5	30/0.25	4	110.0	7.6	20/16
YY51/5V	1.5	30/0.25	5	124.0	8.1	20S
YY71/5V	1.5	30/0.25	7	176.0	9.2	20S
YY81/5V	1.5	30/0.25	8	230.0	11.2	20.0
YY101/5V	1.5	30/0.25	10	265.0	12.4	20.0
YY121/5V	1.5	30/0.25	12	290.0	13.1	20.0
YY181/5V	1.5	30/0.25	18	424.0	14.8	25.0
YY251/5V	1.5	30/0.25	25	565.0	18.0	25.0
YY341/5V	1.5	30/0.25	34	775.0	21.0	32.0
YY501/5V	1.5	30/0.25	50	1095.0	24.3	32.0
YY651/5V	1.5	30/0.25	65	1390.0	28.8	40.0
YY22/5V	2.5	50/0.25	2	106.0	7.8	20/16
YY32/5V	2.5	50/0.25	3	126.0	8.1	20S
YY42/5V	2.5	50/0.25	4	159.0	8.9	20S
YY52/5V	2.5	50/0.25	5	178.0	9.7	20S
YY72/5V	2.5	50/0.25	7	272.0	11.1	20S
YY82/5V	2.5	50/0.25	8	350.0	13.5	20.0
YY122/5V	2.5	50/0.25	12	403.0	13.8	20.0
YY182/5V	2.5	50/0.25	18	597.0	17.5	25.0
YY252/5V	2.5	50/0.25	25	885.0	22.0	32.0
YY342/5V	2.5	50/0.25	34	1220.0	25.8	32.0



Current Carrying Capacity:

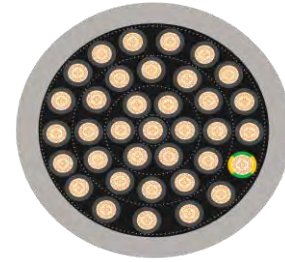
Nominal Cross Sectional Area (mm ²)	Current Carry Capacity		Current Carry Capacity At 30°C
	At 30	In Air Amps	In Conduit (amps)
0.75		13.00	9.0
1		14.50	11.5
1.5		18.50	15.0
2.5		25.00	20.0
4		34.00	27.0
6		43.00	34.0
10		60.00	46.0
16		80.00	62.0

Voltage Drop:

Nominal Cross Sectional Area (mm ²)	Two Core Cable Dc	Single Phase Two Core Cable	Three Phase 3 Or 4 Core Cable
	Mv/a/m	Ac Mv/a/m	Ac Mv/a/m
1	44	44	38.0
1.5	29	29	25.0
2.5	18	18	15.0
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



YY LSZH Control Cable



Application:

Low smoke halogen-free flexible connecting cable for instrumentation and control equipment for tooling machinery, production lines, and in flexible applications with free movement and no tensile load. Suitable for use in dry, ambient and wet rooms. These cables are not suitable for outdoor or underground installations.

Cable Standards:

VDE 0207-303-7,
Flame Retardant according to IEC/EN 60332-1-2,
IEC/EN 60332-3-24
Low Smoke Zero Halogen according to IEC/EN 60754-1/2,
IEC/EN 61034-1/2

Product Description:

Conductor	Class 5 flexible plain copper
Insulation	LSZH (Low Smoke Zero Halogen)
Sheath material	LSZH (Low Smoke Zero Halogen)

Characteristics:

Voltage Rating Uo/U	300/500V
Temperature Rating	Fixed: -40°C to +80°C
	Flexed: -15°C to +70°C
Minimum Bending Radius	Fixed: 6 x overall diameter
	Flexed: 15 x overall diameter

Core Identification:

2 Core: Black with White numbers

3 Core and above Black with White numbers

Numbers plus Green/Yellow

Also available with coloured cores as follows:

2 Core: Blue Brown

3 Core: Blue Brown Green/Yellow

4 Core: Brown Black Grey Green/Yellow

5 Core: Blue Brown Black Grey Green/Yellow

Should not be installed at temperatures below -5°C



Dimensions:

Zion Code	Conductor Size (mm ²)	Stranding (mm)	No. Of Cores	Weight (kg/km)	Outside Diameter (mm)	Gland Size (mm)
YY02750	0.75	24/0.20	2	46.0	5.6	20/16
YY03750	0.75	24/0.20	3	52.0	5.7	20/16
YY04750	0.75	24/0.20	4	64.0	6.2	20/16
YY05750	0.75	24/0.20	5	77.0	7.0	20/16
YY07750	0.75	24/0.20	7	95.0	7.3	20/16
YY12750	0.75	24/0.20	12	155.0	9.5	20S
YY25750	0.75	24/0.20	25	305.0	13.2	20.0
YY34/750	0.75	24/0.20	34	460.0	16.7	25.0
YY0210	1	32/0.20	2	55.0	6.0	20/16
YY0310	1	32/0.20	3	66.0	6.1	20/16
YY0410	1	32/0.20	4	82.0	6.7	20/16
YY0510	1	32/0.20	5	93.0	7.5	20/16
YY021/50	1.5	30/0.25	2	69.0	6.6	20/16
YY031/50	1.5	30/0.25	3	87.0	7.0	20/16
YY041/50	1.5	30/0.25	4	110.0	7.6	20/16
YY051/50	1.5	30/0.25	5	124.0	8.1	20S
YY071/50	1.5	30/0.25	7	176.0	9.2	20S
YY121/50	1.5	30/0.25	12	290.0	13.1	20.0
YY181/50	1.5	30/0.25	18	424.0	14.8	25.0
YY251/50	1.5	30/0.25	25	565.0	18.0	25.0
YY341/50	1.5	30/0.25	34	775.0	21.0	32.0
YY022/50	2.5	50/0.25	2	106.0	7.8	20/16
YY032/50	2.5	50/0.25	3	126.0	8.1	20S
YY042/50	2.5	50/0.25	4	159.0	8.9	20S
YY052/50	2.5	50/0.25	5	178.0	9.7	20S
YY072/50	2.5	50/0.25	7	272.0	11.1	20.0
YY0340	4	56/0.30	3	201.0	10.4	20S
YY0440	4	56/0.30	4	283.0	10.7	20S
YY0540	4	56/0.30	5	293.0	12.4	20.0
YY0740	4	56/0.30	7	413.0	14.0	25.0
YY0360	6	84/0.30	3	273.0	11.5	20.0
YY0460	6	84/0.30	4	352.0	12.8	20.0
YY0560	6	84/0.30	5	415.0	14.6	25.0
YY0760	6	84/0.30	7	537.0	15.2	25.0
YY03100	10	80/0.40	3	466.0	15.3	25.0
YY04100	10	80/0.40	4	631.0	16.5	25.0
YY05100	10	80/0.40	5	720.0	18.6	25.0
YY03160	16	126/0.4	3	697.0	18.4	25.0
YY04160	16	126/0.4	4	767.0	19.9	32.0
YY05160	16	126/0.40	5	1151.0	22.4	32.0
YY03250	25	196/0.40	3	930.0	21.5	32.0



Conductor Resistance:

Nominal Cross Sectional Area (mm ²)	Maximum Diameter Of Wires In Conductor mm	Maximum Resistance Conductor At 20°C
0.75	12.0	26.00
1.00	15.0	19.50
1.50	18.0	13.30
2.50	23.0	7.98
4.00	34.0	4.95
6.00	44.0	3.30
10.00	61.0	1.91
16.00	82.0	1.21
25.00	108.0	0.78

Current Capacity:

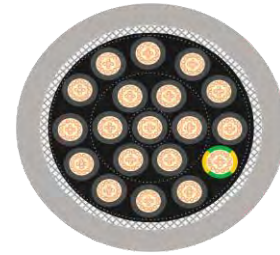
Nominal Cross Sectional Area (mm ²)	Current Carry Capacity At 30°C In Air Amps	Current Carry Capacity At 30°C In Conduit (amps)
0.75	13.0	9.00
1.00	14.5	11.50
1.50	18.5	15.00
2.50	25.0	20.00
4.00	34.0	27.00
6.00	43.0	34.00
10.00	60.0	46.00
16.00	80.0	62.00

Voltage Drop:

Nominal Cross Sectional Area (mm ²)	Two Core Cable Dc Mv/a/m	Single Phase Two Core Cable Ac Mv/a/m	Three Phase 3 Or 4 Core Cable Ac Mv/a/m
1.00	44.0	44.0	38.0
1.50	29.0	29.0	25.0
2.50	18.0	18.0	15.0
4.00	11.0	11.0	9.5
6.00	7.3	7.3	6.4
10.00	4.4	4.4	3.8
16.00	2.8	2.8	2.4



CY PVC Control Cable



Application:

CY Control Flexible cable is used in similar areas as YY flexible cable (such as assembly and production lines) where there is a requirement to avoid high frequency interference.

Cable Standards:

VDE 0207-363-3, VDE 819-102 (TM54)

Flame Retardant according to IEC/EN 60332-1-2

Product Description:

Conductor	Plain Annealed Flexible Copper
Insulation	PVC, TI2 acc. to EN 50363-3, VDE 0207-363-3
Screen	Tinned Copper Wire Braiding
Sheath material	PVC, TM54 acc. to VDE 819-102(TM54)

Characteristics:

Voltage Rating Uo/U	300/500V
Temperature Rating	Fixed: -40°C to +80°C
	Flexed: -5°C to +70°C
Minimum Bending Radius	Fixed: 4 x overall diameter
	Flexed: 12.5 x overall diameter

Core Identification:

2 Core: Black with White numbers

3 Core and above Black with White numbers

Numbers plus Green/Yellow

Also available with coloured cores as follows:

3 Core: Blue Brown Green/Yellow

4 Core: Brown Black Grey Green/Yellow

Should not be installed at temperatures below -5°C



Dimensions:

Zion Code	Conductor Size (mm ²)	Stranding (mm)	No. Of Cores	Weight (kg/km)	Outside Diameter (mm)	Gland Size (mm)
CY0205v	0.5	16/0.20	2	41.0	5.0	20/16
CY0305v	0.5	16/0.20	3	50.0	5.2	20/16
CY0405v	0.5	16/0.20	4	66.0	6.2	20/16
CY0505v	0.5	16/0.20	5	79.0	7.0	20/16
CY0705v	0.5	16/0.20	7	102.0	7.2	20/16
CY02075v	0.75	24/0.20	2	43.0	5.5	20/16
CY03075v	0.75	24/0.20	3	52.0	5.8	20/16
CY04075v	0.75	24/0.20	4	68.0	6.5	20/16
CY05075v	0.75	24/0.20	5	80.0	7.1	20/16
CY07075v	0.75	24/0.20	7	103.0	7.6	20/16
CY12075v	0.75	24/0.20	12	161.0	9.9	20S
CY18075v	0.75	24/0.20	18	238.0	11.7	20.0
CY25075v	0.75	24/0.20	25	316.0	13.9	20.0
CY0201v	1	32/0.20	2	53.0	6.3	20/16
CY0301v	1	32/0.20	3	64.0	6.4	20/16
CY0401v	1	32/0.20	4	84.0	7.2	20/16
CY0501v	1	32/0.20	5	100.0	7.8	20/16
CY0701v	1	32/0.20	7	125.0	8.5	20/16
CY1201v	1	32/0.20	12	209.0	11.3	20S
CY1801v	1	32/0.20	18	308.0	13.3	20.0
CY2501v	1	32/0.20	25	420.0	16.2	25.0
CY3401v	1	32/0.20	34	650.0	19.5	25.0
CY0201/5v	1.5	30/0.25	2	61.0	6.5	20/16
CY0301/5v	1.5	30/0.25	3	78.0	6.9	20/16
CY0401/5v	1.5	30/0.25	4	104.0	7.7	20/16
CY0501/5v	1.5	30/0.25	5	128.0	8.6	20S
CY0701/5v	1.5	30/0.25	7	159.0	9.2	20.0
CY1201/5v	1.5	30/0.25	12	281.0	12.7	25.0
CY1801/5v	1.5	30/0.25	18	396.0	14.7	25.0
CY2501/5v	1.5	30/0.25	25	534.0	17.5	25.0
CY3401/5v	1.5	30/0.25	34	720.0	19.9	32.0
CY4201/5v	1.5	30/0.25	42	1015.0	23.8	25.0
CY0202/5v	2.5	30/0.25	2	102.0	8.0	20/16
CY0302/5v	2.5	50/0.25	3	117.0	8.4	20/16
CY0402/5v	2.5	50/0.25	4	168.0	9.2	20S
CY0502/5v	2.5	50/0.25	5	199.0	10.3	20S
CY0702/5v	2.5	50/0.25	7	252.0	11.2	20S
CY1202/5v	2.5	50/0.25	12	500.0	16.8	25.0
CY0204v	4	56/0.30	2	165.0	10.5	20S
CY0304v	4	56/0.30	3	186.0	10.3	20S
CY0404v	4	56/0.30	4	239.0	11.8	20S
CY0504v	4	56/0.30	5	301.0	13.0	20S
CY0406v	6	84/0.30	4	327.0	12.9	20S
CY0506v	6	84/0.30	5	543.0	16.7	25.0
CY04010v	10	80/0.40	4	553.0	17.2	25.0
CY04016v	16	126/0.40	4	846.0	21.0	32.0



Conductor Resistance:

Nominal Cross Sectional Area (mm ²)	Maximum Diameter Of Wires In Conductor mm	Maximum Resistance Conductor At 20
		Plain Wires Ohms/km
0.50	9.0	39.00
0.75	12.0	26.00
1.00	15.0	19.50
1.50	18.0	13.30
2.50	26.0	7.98
4.00	34.0	4.95
6.00	44.0	3.30
10.00	61.0	1.91
16.00	82.0	1.21

Current Capacity:

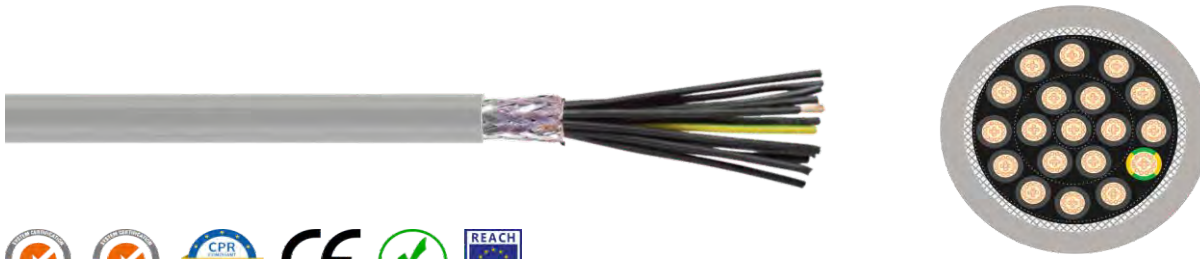
Nominal Cross Sectional Area (mm ²)	Current Carry Capacity At 30		Current Carry Capacity At 30 In Conduit (amps)
	In Air Amps		
0.75	16.0		9.00
1.00	20.0		12.00
1.50	24.0		15.00
2.50	32.0		18.00
4.00	42.0		26.00
6.00	54.0		34.00
10.00	73.0		44.00
16.00	98.0		61.00

Voltage Drop:

Nominal Cross Sectional Area (mm ²)	Two Core Cable Dc Mv/a/m	Single Phase Two Core Cable Ac Mv/a/m	Three Phase 3 Or 4 Core Cable Ac Mv/a/m
1.00	44.0	44.0	38.0
1.50	29.0	29.0	25.0
2.50	18.0	18.0	15.0
4.00	11.0	11.0	9.5
6.00	7.3	7.3	6.4
10.00	4.4	4.4	3.8
16.00	2.8	2.8	2.4



CY LSZH Control Cable



Application:

Low smoke zero halogen CY flexible control cable is used in installations where a screen is required to prevent interference on data and signal transmissions. The flexible cable is also used on measuring as well as checking and control equipment in areas where there is risk to life from fire, smoke emissions and toxic fumes.

Cable Standards:

VDE 0207-303-7,
Flame Retardant according to IEC/EN 60332-1-2,
IEC/EN 60332-3-24
Low Smoke Zero Halogen according to IEC/EN 60754-1/2,
IEC/EN 61034-1/2

Product Description:

Conductor	Plain Annealed Flexible Copper
Insulation	Low Smoke Zero Halogen (LSZH)
Screen	Tinned Copper Wire Braiding
Sheath material	Low Smoke Zero Halogen (LSZH)

Characteristics:

Voltage Rating U ₀ /U	300/500V
Temperature Rating	Fixed: -40°C to +80°C
	Flexed: -15°C to +70°C
Minimum Bending Radius	Fixed: 6 x overall diameter
	Flexed: 15 x overall diameter

Core Identification:

3 Core and above Black with White numbers

Numbers plus Green/Yellow

Also available with coloured cores as follows:

3 Core: Blue Brown Green/Yellow

4 Core: Brown Black Grey Green/Yellow

Should not be installed at temperatures below -5°C



Dimensions:

Zion Code	Conductor Size (mm ²)	Stranding (mm)	No. Of Cores	Weight (kg/km)	Outside Diameter (mm)	Gland Size (mm)
CY02750	0.75	24/0.20	2	43.0	5.5	20/16
CY03750	0.75	24/0.20	3	52.0	5.8	20/16
CY04750	0.75	24/0.20	4	68.0	6.5	20/16
CY05750	0.75	24/0.20	5	80.0	7.1	20/16
CY07750	0.75	24/0.2	7	103.0	7.6	20/16
CY02150	1.5	30/0.25	2	61.0	6.5	20/16
CY03150	1.5	30/0.25	3	78.0	6.9	20/16
CY04150	1.5	30/0.25	4	104.0	7.7	20/16
CY05150	1.5	30/0.25	5	128.0	8.6	20/16
CY12150	1.5	30/0.25	12	281.0	12.7	25.0
CY18150	1.5	30/0.25	18	396.0	14.7	25.0
CY25150	1.5	30/0.25	25	534.0	17.5	25.0
CY34150	1.5	30/0.25	34	720.0	19.9	32.0
CY02250	2.5	50/0.25	2	102.0	8.0	20/16
CY03250	2.5	50/0.25	3	117.0	8.4	20/16
CY04250	2.5	50/0.25	4	168.0	9.2	20S
CY0440	4	56/0.25	4	239.0	11.8	20S
CY0460	6	84/0.30	4	327.0	12.9	20S
CY0560	6	84/0.30	5	543.0	16.7	25.0
CY04100	10	80/0.40	4	553.0	17.2	25.0
CY04160	16	126/0.40	4	846.0	21.0	32.0

Conductor Resistance:

Nominal Cross Sectional Area (mm ²)	Maximum Diameter Of Wires In Conductor mm	Maximum Resistance Conductor At 20°C
		Plain Wires Ohms/km
0.50	9.0	39.00
0.75	12.0	26.00
1.00	15.0	19.50
1.50	18.0	13.30
2.50	26.0	7.98
4.00	34.0	4.95
6.00	44.0	3.30
10.00	61.0	1.91
16.00	82.0	1.21



Current Capacity:

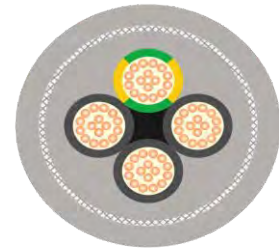
Nominal Cross Sectional Area (mm ²)	Current Carry Capacity At 30°C In Air Amps	Current Carry Capacity At 30°C In Conduit (amps)
0.75	16.0	9.00
1.00	20.0	12.00
1.50	24.0	15.00
2.50	32.0	18.00
4.00	42.0	26.00
6.00	54.0	34.00
10.00	73.0	44.00
16.00	98.0	61.00

Voltage Drop:

Nominal Cross Sectional Area (mm ²)	Two Core Cable Dc Mv/a/m	Single Phase Two Core Cable Ac Mv/a/m	Three Phase 3 Or 4 Core Cable Ac Mv/a/m
1.00	44.0	44.0	38.0
1.50	29.0	29.0	25.0
2.50	18.0	18.0	15.0
4.00	11.0	11.0	9.5
6.00	7.3	7.3	6.4
10.00	4.4	4.4	3.8
16.00	2.8	2.8	2.4



Type SY PVC Control Cable



Application:

SY cables are used as an interconnecting cable between fixed and mobile equipment in conveyors, assembly lines, production lines and machine tool manufacture where the galvanised steel wire braid armour gives excellent mechanical protection. These cables are not UV resistant but can be used outdoors if adequately protected against direct sunlight in trunking etc.

Cable Standards:

VDE 0207-363-3, VDE 819-102 (TM54)

Flame Retardant according to IEC/EN 60332-1-2

Product Description:

Conductor	Plain Annealed Stranded Copper
Insulation	PVC
Bedding	PVC
Armouring	Galvanised Steel Wire Braid
Sheath	Transparent PVC

Characteristics:

Voltage Rating Uo/U	300/500V
Temperature Rating	Fixed: -40°C to +80°C
	Flexed: -5°C to +70°C
Minimum Bending Radius	Fixed: 4 x overall diameter
	Flexed: 12.5 x overall diameter

Core Identification:

2 Core: Black with White numbers

3 Core and above Black with White numbers

Numbers plus Green/Yellow

Also available with coloured cores as follows:

3 Core: Blue Brown Green/Yellow

4 Core: Brown Black Grey Green/Yellow

5 Core: Blue Brown Black Grey Green/Yellow

Should not be installed at temperatures below -5°C



Dimensions:

Zion Code	Conductor Size (mm ²)	Stranding (mm)	No. Of Cores	Weight (kg/km)	Outside Diameter (mm)	Gland Size (mm)
SY0275-v	0.75	24/0.20	2	78.0	7.1	20/16
SY0375-v	0.75	24/0.20	3	91.0	7.6	20/16
SY0475-v	0.75	24/0.20	4	104.0	8.3	20/16
SY0575-v	0.75	24/0.20	5	121.0	8.9	20/16
SY0775-v	0.75	24/0.20	7	135.0	9.5	20/16
SY1275-v	0.75	24/0.20	12	214.0	11.9	20S
SY1875-v	0.75	24/0.20	18	293.0	13.2	20S
SY2575-v	0.75	24/0.20	25	418.0	13.7	20S
SY3475-v	0.75	24/0.20	34	610.0	19.0	20.0
SY021-v	1.00	32/0.20	2	85.0	7.7	20/16
SY031-v	1.00	32/0.20	3	95.0	8.2	20/16
SY041-v	1.00	32/0.20	4	120.0	9.0	20/16
SY051-v	1.00	32/0.20	5	123.0	9.2	20/16
SY071-v	1.00	32/0.20	7	171.0	10.1	20/16
SY121-v	1.00	32/0.20	12	276.0	12.9	20S
SY181-v	1.00	32/0.20	18	382.0	15.0	20.0
SY251-v	1.00	32/0.20	25	437.0	17.9	20.0
SY341-v	1.00	32/0.20	34	556.0	20.0	20.0
SY501-v	1.00	32/0.20	50	955.0	23.7	25.0
SY021/5-v	1.50	30/0.25	2	100.0	8.2	20/16
SY031/5-v	1.50	30/0.25	3	143.0	8.6	20/16
SY041/5-v	1.50	30/0.25	4	170.0	9.3	20/16
SY051/5-v	1.50	30/0.25	5	173.0	10.00	20/16
SY071/5-v	1.50	30/0.25	7	198.0	10.7	20/16
SY121/5-v	1.50	30/0.25	12	341.0	13.8	20S
SY181/5-v	1.50	30/0.25	18	490.0	16.4	20.0
SY251/5-v	1.50	30/0.25	25	606.0	19.2	20.0
SY341/5-v	1.50	30/0.25	34	835.0	21.6	25.0
SY501/5-v	1.50	30/0.25	50	1046.0	23.8	25.0
SY022/5-v	2.50	50/0.25	2	177.0	9.8	20/16
SY032/5-v	2.50	50/0.25	3	190.0	9.9	20/16
SY042/5-v	2.50	50/0.25	4	240.0	10.8	20/16
SY052/5-v	2.50	50/0.25	5	247.0	11.5	20S
SY072/5-v	2.50	50/0.25	7	327.0	13.0	20S
SY122/5-v	2.50	50/0.25	12	502.0	16.9	20.0
SY182/5-v	2.50	50/0.25	18	740.0	19.8	20.0
SY252/5-v	2.50	50/0.25	25	1065.0	23.2	25.0
SY342/5-v	2.50	50/0.25	34	1126.0	24.3	25.0
SY034-v	4.00	56/0.30	3	323.0	12.2	20S
SY044-v	4.00	56/0.30	4	354.0	13.4	20S
SY054-v	4.00	56/0.30	5	392.0	15.0	20.0
SY074-v	4.00	56/0.30	7	486.0	16.0	20.0
SY036-v	6.00	84/0.30	3	343.0	13.4	20S
SY046-v	6.00	84/0.30	4	458.0	14.6	20S
SY056-v	6.00	84/0.30	5	572.0	16.7	20.0
SY076-v	6.00	84/0.30	7	640.0	18.0	20.0
SY0310-v	10.00	80/0.40	3	563.0	17.3	20.0
SY0410-v	10.00	80/0.40	4	776.0	19.1	20.0
SY0510-v	10.00	80/0.40	5	855.0	21.0	25.0



Dimensions:

Zion Code	Conductor Size (mm ²)	Stranding (mm)	No. Of Cores	Weight (kg/km)	Outside Diameter (mm)	Gland Size (mm)
SY0316-v	16.00	126/0.40	3	813.0	20.5	25.0
SY0416-v	16.00	126/0.40	4	900.0	22.4	25.0
SY0516-v	16.00	126/0.40	5	1258.0	25.2	25.0
SY0425-v	25.00	196/0.40	4	1597.0	28.2	32.0
SY0525-v	25.00	196/0.40	5	2007.0	31.2	40.0
SY0435-v	35.00	276/0.40	4	2046.0	31.3	40.0
SY0535-v	35.00	276/0.40	5	2524.0	34.3	40.0
SY0450-v	50.00	396/0.40	4	2888.0	37.0	40.0
SY0470-v	70.00	356/0.50	4	4015.0	41.2	50S
SY0495-v	95.00	485/0.50	4	5176.0	47.8	50.0

Conductor Resistance:

Nominal Cross Sectional Area (mm ²)	Maximum Diameter Of Wires In Conductor mm	Maximum Resistance Conductor At 20°C
0.75	12.0	26.00
1.00	15.0	19.50
1.50	18.0	13.30
2.50	26.0	7.98
4.00	34.0	4.95
6.00	44.0	3.30
10.00	61.0	1.91
16.00	82.0	1.21

Current Carrying Capacity:

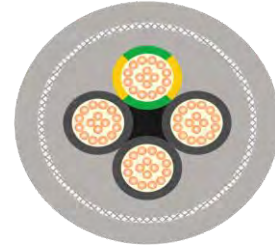
Nominal Cross Sectional Area (mm ²)	Current Carry Capacity At 30°C		Current Carry Capacity At 30°C In Conduit (amps)
	In Air Amps		
0.75	13.00		9.0
1	14.50		11.5
1.5	18.50		15.0
2.5	25.00		20.0
4	34.00		27.0
6	43.00		34.0
10	60.00		46.0
16	80.00		62.0

Voltage Drop:

Nominal Cross Sectional Area (mm ²)	Voltage Drop (Mv/a/m)		
	Two Core Cable Dc	Single Phase Two Core Cable Ac	Three Phase 3 Or 4 Core Cable Ac
1	44	44	38.0
1.5	29	29	25.0
2.5	18	18	15.0
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



Type SY LSZH Control Cable



Application:

SY control cable is used as a control cable in areas requiring light mechanical protection and areas where there is risk to life from fire, smoke emissions and toxic fumes. The cables are designed to be used as a connecting cable for measuring, control and regulation equipment for assembly, production lines and conveyor systems.

Cable Standards:

VDE 0207-303-7,
Flame Retardant according to IEC/EN 60332-1-2,
IEC/EN 60332-3-24
Low Smoke Zero Halogen according to IEC/EN 60754-1/2,
IEC/EN 61034-1/2

Product Description:

Conductor	Plain Annealed Stranded Copper
Insulation	LSZH insulated
Armouring	Galvanised Steel Wire Braid
Sheath	LSZH insulated

Characteristics:

Voltage Rating Uo/U	300/500V
Temperature Rating	Fixed: -40°C to +80°C
	Flexed: -15°C to +70°C
Minimum Bending Radius	Fixed: 6 x overall diameter
	Flexed: 15 x overall diameter

Core Identification:

3 Core and above Black with White numbers

Numbers plus Green/Yellow

Also available with coloured cores as follows:

3 Core: Blue Brown Green/Yellow

4 Core: Brown Black Grey Green/Yellow

Should not be installed at temperatures below -5°C



Dimensions:

Zion Code	Conductor Size (mm ²)	Stranding (mm)	No. Of Cores	Weight (kg/km)	Outside Diameter (mm)	Gland Size (mm)
SY0315-0	1.50	30/0.25	3	143.0	8.6	20/16
SY0415-0	1.50	30/0.25	4	170.0	9.3	20/16
SY0325-0	2.50	50/0.25	3	190.0	9.9	20/16
SY0425-0	2.50	50/0.25	4	240.0	10.8	20/16
SY0525-0	2.50	50/0.25	5	247.0	11.5	20S
SY034-0	4.00	56/0.3	3	323.0	12.2	20S
SY044-0	4.00	56/0.30	4	354.0	13.4	20S
SY054-0	4.00	56/0.30	5	392.0	15.0	20.0
SY036-0	6.00	84/0.30	3	343.0	13.4	20S
SY046-0	6.00	84/0.30	4	458.0	14.6	20.0
SY056-0	6.00	84/0.30	5	572.0	16.7	20.0

Conductor Resistance:

Nominal Cross Sectional Area (mm ²)	Maximum Diameter Of Wires In Conductor mm	Maximum Resistance Conductor At 20°C
0.75	12.0	26.00
1.00	15.0	19.50
1.50	18.0	13.30
2.50	26.0	7.98
4.00	34.0	4.95
6.00	44.0	3.30

Current Carrying Capacity:

Nominal Cross Sectional Area (mm ²)	Current Carry Capacity At 30°C In Air Amps	Current Carry Capacity At 30°C In Conduit (amps)
0.75	16.00	9.0
1	20.00	12.0
1.5	24.00	15.0
2.5	32.00	18.0
4	42.00	26.0
6	54.00	34.0

Voltage Drop:

Nominal Cross Sectional Area (mm ²)	Two Core Cable Dc Mv/a/m	Single Phase Two Core Cable Ac Mv/a/m	Three Phase 3 Or 4 Core Cable Ac Mv/a/m
1	44	44	38.0
1.5	29	29	25.0
2.5	18	18	15.0
4	11	11	9.5
6	7.3	7.3	6.4

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