



# Control Cable

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# 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 <sup>2</sup> )	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 <sup>2</sup> )	Current Carry Capacity	
	At 30 In Air Amps	Current Carry Capacity At 30°C 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 <sup>2</sup> )	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



# 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 <sup>2</sup> )	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
YY34750	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 <sup>2</sup> )	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 <sup>2</sup> )	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

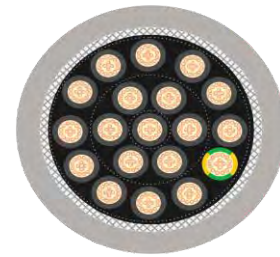
## Voltage Drop:

Nominal Cross Sectional Area (mm <sup>2</sup> )	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 <sup>2</sup> )	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 <sup>2</sup> )	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:

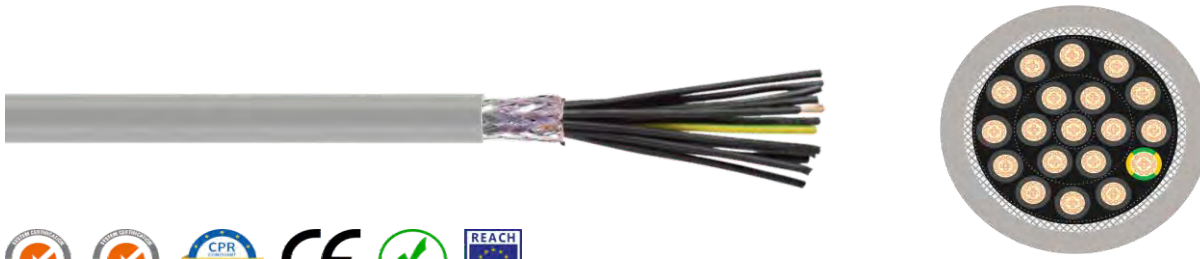
Nominal Cross Sectional Area (mm <sup>2</sup> )	Current Carry Capacity At 30		Current Carry Capacity At 30 In Conduit (amps)
	In Air Amps		
0.75	16.0		9.00
1.00	20.0		12.00
1.50	24.0		15.00
2.50	32.0		18.00
4.00	42.0		26.00
6.00	54.0		34.00
10.00	73.0		44.00
16.00	98.0		61.00

## Voltage Drop:

Nominal Cross Sectional Area (mm <sup>2</sup> )	Voltage Drop (Mv/a/m)		
	Two Core Cable Dc	Single Phase Two Core Cable Ac	Three Phase 3 Or 4 Core Cable Ac
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 <sub>0</sub> /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 <sup>2</sup> )	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 <sup>2</sup> )	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:

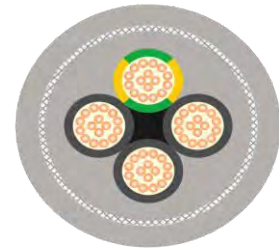
Nominal Cross Sectional Area (mm <sup>2</sup> )	Current Carry Capacity At 30°C In Air Amps	Current Carry Capacity At 30°C In Conduit (amps)
0.75	16.0	9.00
1.00	20.0	12.00
1.50	24.0	15.00
2.50	32.0	18.00
4.00	42.0	26.00
6.00	54.0	34.00
10.00	73.0	44.00
16.00	98.0	61.00

## Voltage Drop:

Nominal Cross Sectional Area (mm <sup>2</sup> )	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 <sup>2</sup> )	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 <sup>2</sup> )	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 <sup>2</sup> )	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:

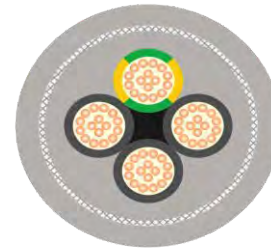
Nominal Cross Sectional Area (mm <sup>2</sup> )	Current Carry Capacity At 30°C		Current Carry Capacity At 30°C In Conduit (amps)
	In Air Amps		
0.75	13.00		9.0
1	14.50		11.5
1.5	18.50		15.0
2.5	25.00		20.0
4	34.00		27.0
6	43.00		34.0
10	60.00		46.0
16	80.00		62.0

## Voltage Drop:

Nominal Cross Sectional Area (mm <sup>2</sup> )	Two Core Cable Dc		Single Phase Two Core Cable		Three Phase 3 Or 4 Core Cable	
	Mv/a/m		Ac		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 <sup>2</sup> )	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 <sup>2</sup> )	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:

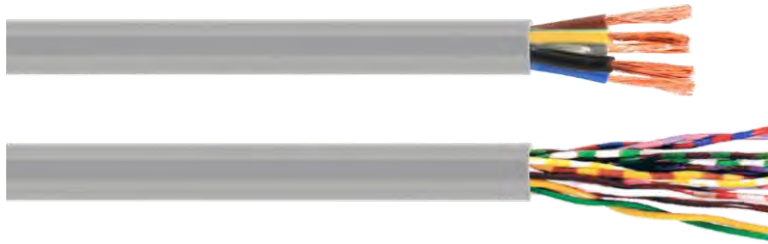
Nominal Cross Sectional Area (mm <sup>2</sup> )	Current Carry Capacity At 30°C In Air Amps	Current Carry Capacity At 30°C In Conduit (amps)
0.75	16.00	9.0
1	20.00	12.0
1.5	24.00	15.0
2.5	32.00	18.0
4	42.00	26.0
6	54.00	34.0

## Voltage Drop:

Nominal Cross Sectional Area (mm <sup>2</sup> )	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



# 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:

<b>Peak operating voltage</b>	< 0.25 mm <sup>2</sup> = max. 350 V ≥ 0.25 mm <sup>2</sup> = max. 500 V
<b>Testing voltage</b>	core/core 1500 V
<b>Min. bending radius</b>	
fixed laying:	5 x d
flexible application:	10 x d
<b>Temperature range</b>	
fixed laying:	-30/+70 °C
flexible application:	-5/+70 °C
<b>Fire performance</b>	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- $\phi$ $\pm$ 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- $\phi$ $\pm$ 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:

<b>Peak operating voltage</b>	< 0.25 mm <sup>2</sup> = max. 350 V
<b>Testing voltage</b>	core/core 1500 Vcore/screen 1200 V
<b>Min. bending</b>	
fixed laying:	5 x d
flexible	10 x d
<b>Temperature range</b>	
fixed laying:	-30/+70 °C
flexible	-5/+70 °C
<b>Fire performance</b>	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- $\phi$ $\pm$ 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- $\phi$ $\pm$ 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:

<b>Peak operating voltage</b>	< 0.25 mm <sup>2</sup> = max. 350 V ≥ 0.25 mm <sup>2</sup> = max. 500 V
<b>Testing voltage</b>	core/core 1500 V
<b>Min. bending radius</b>	fixed laying: flexible application:
	5 x d 10 x d
<b>Temperature range</b>	fixed laying: flexible application:
	-30/+70 °C -5/+70 °C
<b>Fire performance</b>	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- $\phi$ $\pm$ 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:

<b>Peak operating voltage</b>	< 0.25 mm <sup>2</sup> = max. 350 V ≥ 0.25 mm <sup>2</sup> = max. 500 V
<b>Testing voltage</b>	core/core 1500 V
<b>Min. bending radius</b>	
fixed laying:	5 x d
flexible application:	10 x d
<b>Temperature range</b>	
fixed laying:	-30/+70 °C
flexible application:	-5/+70 °C
<b>Fire performance</b>	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- $\phi$ $\pm$ 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










# PVC Sensor & Actuator Cable



## Application

According to production requests, Industrial sensor cable assist sensor to monitor processing data. It is first priorities to automatic tests and control, cable used in industrial production, environment protection, resource exploration. Cable fixed installation for slightly movement.

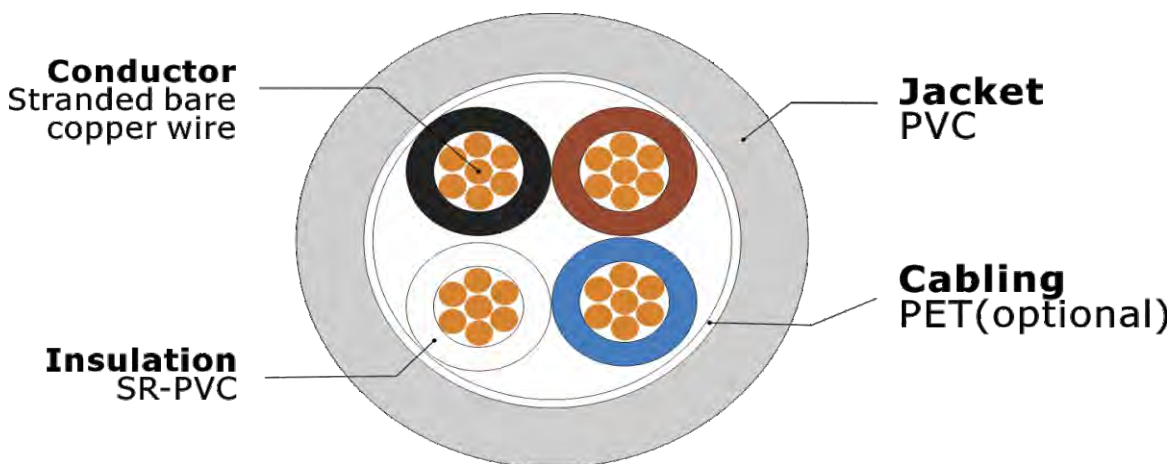
## Cable Construction

Conductor: Stranded bare copper wire	      
Insulation: SR-PVC	
Cabling: PET (optional)	
Jacket: PVC	
Color: Grey or other colors	

## Product Feature

- Oil resistance, Easy flexible bending
- Fire resistance meets IEC60332-1 UV resistance

## Cross Section





## Technical data

Temperature range	-40°C to 80°C
Rated voltage	UL/CSA 300V
Bending radius	10x cable diameter
Test voltage	1500V 1min,no breakdown
Insulation resistance	0.25mm <sup>2</sup> ≤80 ohm/km
	0.34mm <sup>2</sup> ≤60 ohm/km

## Product List:

Item No.	Spec.	Jacket	Nominal OD(mm)	Copper.weight approx (kg/km)	Weight approx (kg/km)
7140000	3*0.25mm <sup>2</sup>	PVC	4.4	7	25
7140001	4*0.25mm <sup>2</sup>	PVC	4.4	9.5	27
7140002	3*0.34mm <sup>2</sup>	PVC	5.2	10	34
7140003	4*0.34mm <sup>2</sup>	PVC	5.2	13.5	37
7140004	5*0.34mm <sup>2</sup>	PVC	5.2	17	42

## Order Informations

Marking	HELLOSIGNAL PVC Sensor & Actuator Cable XXXFT/M
Package	100M/Reel, 300M/Wooden Spool
Delivery time	Normally 25 days after received the deposit.
Brand	HELLOSIGNAL® OR OEM

## Online Service

ICQ	+86 15088607575
Whatsapp	+86 15088607575
Email	info@zion-communication.com



# PUR Sensor & Actuator cables unshielded



## Application

According to production requests, Industrial sensor cable assist sensor to monitor processing data. It is first priorities to automatic tests and control, cable used in industrial production, environment protection, resource exploration. Very flexible installation (power chains or moving machine parts).

## Cable Construction

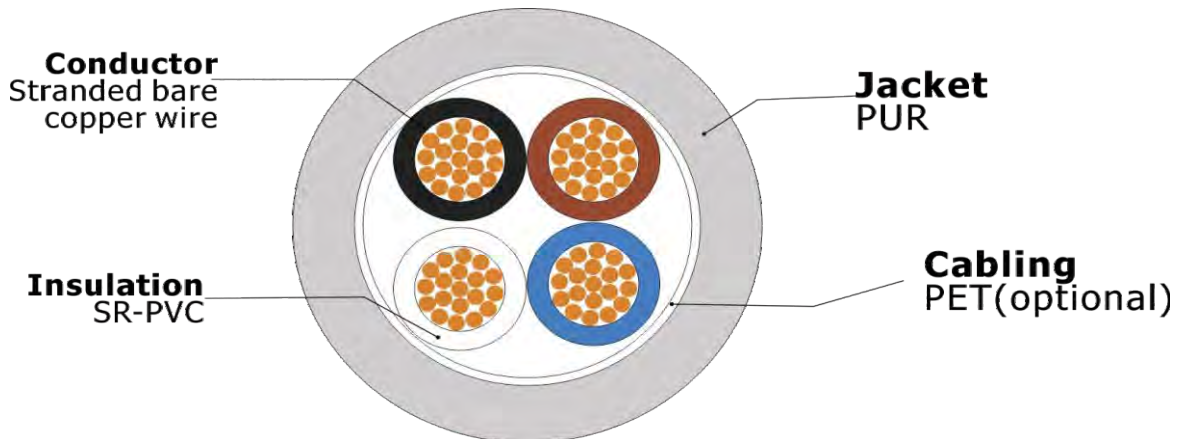
Conductor: Stranded bare copper wire
Insulation: SR-PVC
Cabling: PET (optional)
Jacket: PUR
Color: Grey



## Product Feature

Oil resistance, Easy flexible bending
Fire resistance meets IEC60332-1
Abrasion resistance, Anti-hydrolysis

## Cross Section







## Technical data

Temperature range	-5°C to 70°C
Rated voltage	UL/CSA 300V
Bending radius	15x cable diameter
Test voltage	1500V 1min,no breakdown
Insulation resistance	0.25mm <sup>2</sup> ≤80 ohm/km
	0.34mm <sup>2</sup> ≤60 ohm/km

## Product List:

Item No.	Spec.	Jacket	Nominal OD(mm)	Copper.weight approx (kg/km)	Weight approx (kg/km)
7140050	3*0.14mm <sup>2</sup>	PUR	2.9	3.7	
7140051	4*0.14mm <sup>2</sup>	PUR	3.5	5	
7140052	3*0.25mm <sup>2</sup>	PUR	4.4	6.9	23.5
7140053	4*0.25mm <sup>2</sup>	PUR	4.7	9.3	25
7140054	6*0.25mm <sup>2</sup>	PUR	5.1	13.8	
7140055	8*0.25mm <sup>2</sup>	PUR	6	18.5	
7140056	10*0.25mm <sup>2</sup>	PUR	6.3	23.1	
7140057	12*0.25mm <sup>2</sup>	PUR	6.4	27.8	
7140058	14*0.25mm <sup>2</sup>	PUR	7.2	32.4	
7140059	3*0.34mm <sup>2</sup>	PUR	4.3	9.1	33
7140060	4*0.34mm <sup>2</sup>	PUR	4.7	12.1	35
7140061	5*0.34mm <sup>2</sup>	PUR	5.1	15.1	40
7140062	6*0.34mm <sup>2</sup>	PUR	6	18.2	
7140063	3*0.50mm <sup>2</sup>	PUR	4.6	13.9	
7140064	5*0.50mm <sup>2</sup>	PUR	5.4	23.1	

## Order Informations

Marking	HELLOSIGNAL PUR Sensor & Actuator cables unshielded XXXFT/M
Package	100M/Reel, 300M/Wooden Spool
Delivery time	Normally 25 days after received the deposit.
Brand	HELLOSIGNAL® OR OEM

## Online Service

ICQ	+86 15088607575
Whatsapp	+86 15088607575
Email	info@zion-communication.com



# PUR Sensor & Actuator cables Shielded



## Application

According to production requests, Industrial sensor cable assist sensor to monitor processing data. It is first priorities to automatic tests and control, cable used in industrial production, environment protection, resource exploration. Very flexible installation (power chains or moving machine parts).

## Cable Construction

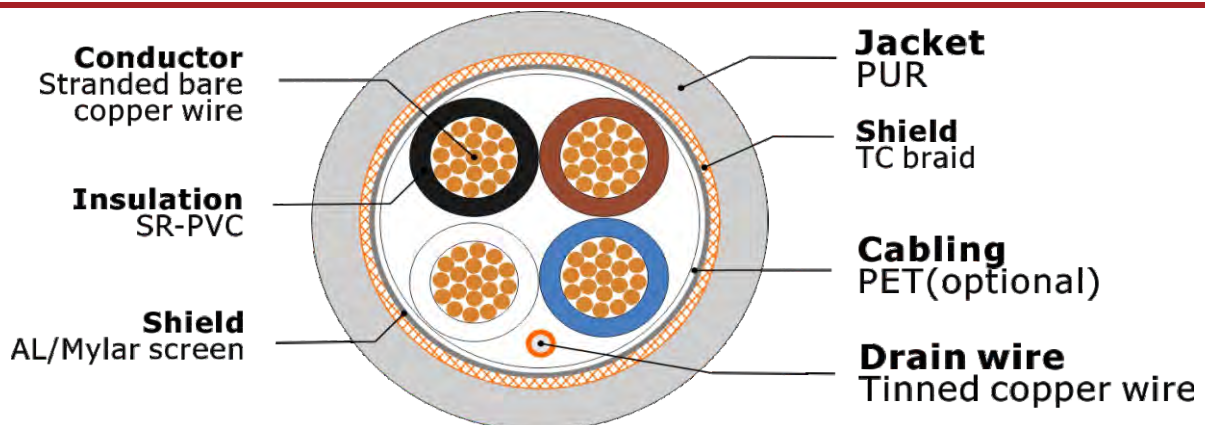
Conductor: Stranded bare copper wire
Insulation: SR-PVC
Cabling: PET (optional)
Shield: AL/Mylar screen and TC braid
Drain wire: Tinned copper wire
Jacket: PUR
Color: Grey



## Product Feature

Oil resistance, Easy flexible bending
Fire resistance meets IEC60332-1
Abrasion resistance, Anti-hydrolysis

## Cross Section





## Technical data

Temperature range	-5°C to 70°C
Rated voltage	UL/CSA 300V
Bending radius	15x cable diameter
Test voltage	1500V 1min,no breakdown
Insulation resistance	0.25mm <sup>2</sup> ≤80 ohm/km
	0.34mm <sup>2</sup> ≤60 ohm/km

## Product List:

Item No.	Spec.	Jacket	Nominal OD(mm)	Copper.weight approx (kg/km)	Weight approx (kg/km)
7140070	3*0.14mm <sup>2</sup>	PUR	3.1	3.7	
7140071	4*0.14mm <sup>2</sup>	PUR	3.7	5	
7140072	3*0.25mm <sup>2</sup>	PUR	4.6	6.9	23.5
7140073	4*0.25mm <sup>2</sup>	PUR	4.9	9.3	25.0
7140074	6*0.25mm <sup>2</sup>	PUR	5.3	13.8	
7140075	8*0.25mm <sup>2</sup>	PUR	6.2	18.5	
7140076	10*0.25mm <sup>2</sup>	PUR	6.5	23.1	
7140077	12*0.25mm <sup>2</sup>	PUR	6.6	27.8	
7140078	14*0.25mm <sup>2</sup>	PUR	7.4	32.4	
7140079	3*0.34mm <sup>2</sup>	PUR	4.5	9.1	33.0
7140080	4*0.34mm <sup>2</sup>	PUR	4.9	12.1	35.0
7140081	5*0.34mm <sup>2</sup>	PUR	5.3	15.1	40.0
7140082	6*0.34mm <sup>2</sup>	PUR	6.2	18.2	
7140083	3*0.50mm <sup>2</sup>	PUR	4.8	13.9	
7140084	5*0.50mm <sup>2</sup>	PUR	5.6	23.1	

## Order Informations

Marking	HELLOSIGNAL PUR Sensor & Actuator cables Shielded XXXFT/M
Package	100M/Reel, 300M/Wooden Spool
Delivery time	Normally 25 days after received the deposit.
Brand	HELLOSIGNAL® OR OEM

## Online Service

ICQ	+86 15088607575
Whatsapp	+86 15088607575
Email	info@zion-communication.com



## FP Cable or Air Guider Cable



### Application:

Liquid level transmitter dedicated air guide cable, is a gas detection cable, by the air pipe, power cable, signal cable, waterproof decompression layer, shielding layer and outer protective layer, power cable and signal cable Tightly arranged in the airway around the composition of the ring core, in the ring outside the cable core coaxially wrapped with waterproof decompression layer, shielding layer and outer sheath, the main technical features are:

signal cable for the three groups, power Cable corresponding to the three groups, the signal cable and power cables are arranged in the same diameter interval.

Liquid level transmitter dedicated air guide cable with a new type of structural design, to achieve a number of underground detection sensors at the same time signal detection and signal transmission function,

to underground oil, water, gas measured targets for safe and accurate measurement , Has a good resistance to oil, wear, Naisuan Jian, corrosion resistance, waterproof and shielding performance, its softness and tensile strength, excellent pressure resistance, high reliability.

Liquid level transmitter dedicated air guide cable, outer jacket material is polyethylene, polyurethane, flexible bright body, with waterproof, anti-oil, anti-corrosion, tensile and other effects!

### Product Feature:

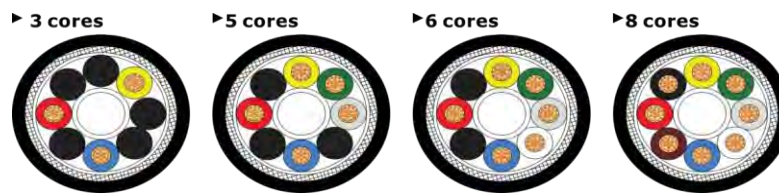
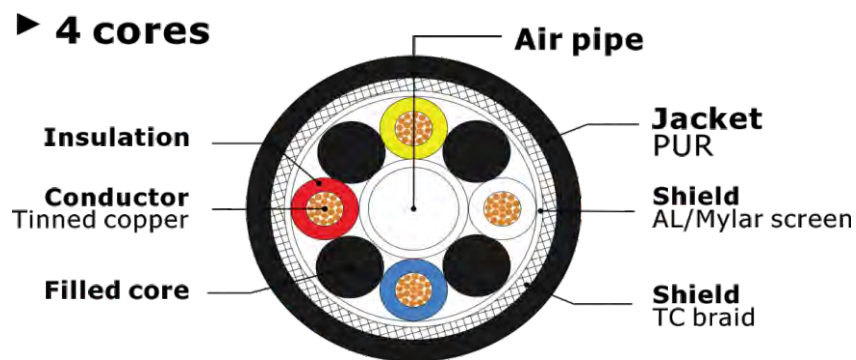
XTZP Polyethylene insulated Dingqing sheathed shielded gas detection cable

XTVP Polyethylene insulated PVC sheathed shielded gas detection cable

XTUP Polyethylene Insulated Polyurethane Elastic Sheath Shielded Gas Transmission Detection Cable



## Cross Section



## Performance:

Max DC Resistance	0.12mm <sup>2</sup> = 163 Ω/KM
	0.20mm <sup>2</sup> = 90 Ω/KM
Min. Insulation Resistance	1000MΩ/km

## Product List:

Zion Code	Conductor Section (mm <sup>2</sup> )	Conductor Structure	Average O.D (mm)	Ω (20°C)	Weight (Kg/Km)
7140090	4*0.12mm <sup>2</sup>	7/0.15	1.0/2.2	1.2	7.3
7140091	4*0.20mm <sup>2</sup>	7/0.20	1.0/2.2	1.4	7.3
7140092	5*0.12mm <sup>2</sup>	7/0.15	1.0/2.2	1.2	7.3
7140093	5*0.20mm <sup>2</sup>	7/0.20	1.0/2.2	1.4	7.3
7140094	6*0.12mm <sup>2</sup>	7/0.15	1.0/2.2	1.2	7.3
7140095	6*0.20mm <sup>2</sup>	7/0.20	1.0/2.2	1.4	7.3
7140096	8*0.12mm <sup>2</sup>	7/0.15	1.0/2.2	1.2	7.3
7140097	8*0.20mm <sup>2</sup>	7/0.20	1.0/2.2	1.4	7.3



# CANBus Cable

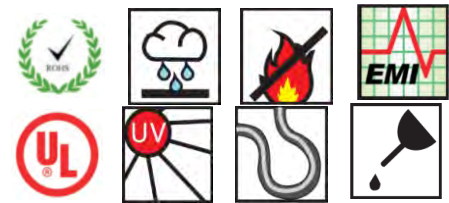


## Application

Widely used in many bus systems, apply to build up network for automation technology, combination control and controller, etc, such as textile industry, construction machinery industry, medical industry.

## Cable Construction

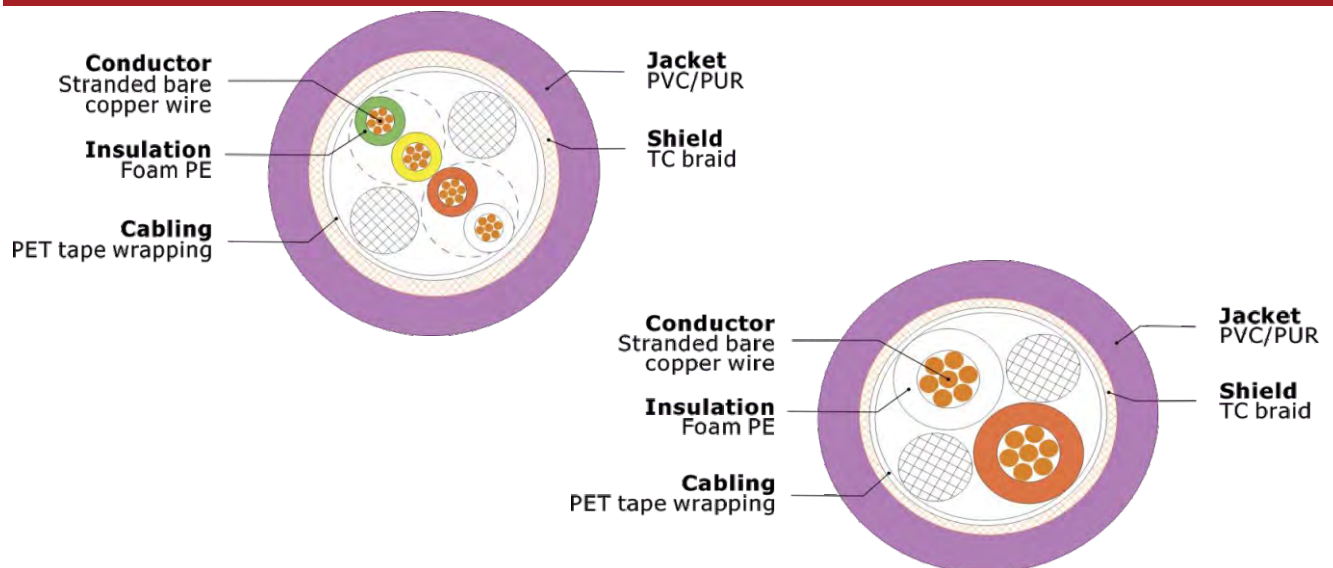
Conductor: Stranded bare copper wire
Insulation: Foam PE
Cabling: PET tape wrapping
Shield: TC braid
Jacket: see attached list
Color: Purple(similar to RAL 4001)



## Product Feature

- UV, Oil and grease resistance
- High braiding coverage, excellent Anti-EMI performance
- Abrasion resistance, Anti-hydrolysis
- Torsion resistance, Easy bending

## Cross Section





## Technical data

Temperature range	-40°C to 80°C
Test voltage	1500V 1min,no breakdown
Peak voltage	250V
Characteristic impedance	120±15 Ohm
Min bending radius	15x cable diameter
Loop conductor DC resistance at 20	≤164 ohm/km

## Product List:

Item No.	Spec.	Jacket	Nominal OD(mm)	Copper.weight approx (kg/km)	Weight approx (kg/km)
7131000	1*2*0.22mm <sup>2</sup>	PVC	5.7	14	44
7131001	2*2*0.22mm <sup>2</sup>	PVC	7.6	26	66
7131002	1*2*0.34mm <sup>2</sup>	PVC	6.8	22	57
7131003	2*2*0.34mm <sup>2</sup>	PVC	8.5	35	92
7131004	1*2*0.50mm <sup>2</sup>	PVC	7.5	27.5	67
7131005	2*2*0.50mm <sup>2</sup>	PVC	9.7	47	96
7131006	1*2*0.22mm <sup>2</sup>	PUR	6.3	16	48
7131007	2*2*0.22mm <sup>2</sup>	PUR	8.4	31	74
7131008	1*2*0.34mm <sup>2</sup>	PUR	7.3	26	66
7131009	2*2*0.34mm <sup>2</sup>	PUR	9.3	37	86
7131010	1*2*0.50mm <sup>2</sup>	PUR	8.1	33	72
7131011	2*2*0.50mm <sup>2</sup>	PUR	10.6	50	102

## Order Informations

Marking	HELLOSIGNAL Industrial CANBus Cable XXXFT/M
Package	100M/Reel, 300M/Wooden Spool
Delivery time	Normally 25 days after received the deposit.
Brand	HELLOSIGNAL® OR OEM

## Online Service

ICQ	+86 15088607575
Whatsapp	+86 15088607575
Email	info@zion-communication.com





# INTERBUS Cable

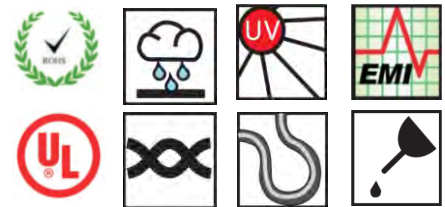


## Application

Cable widely used in many industrial field bus system, such as automobile,tobacco,warehouse,papermaking,food&beverage.

## Cable Construction

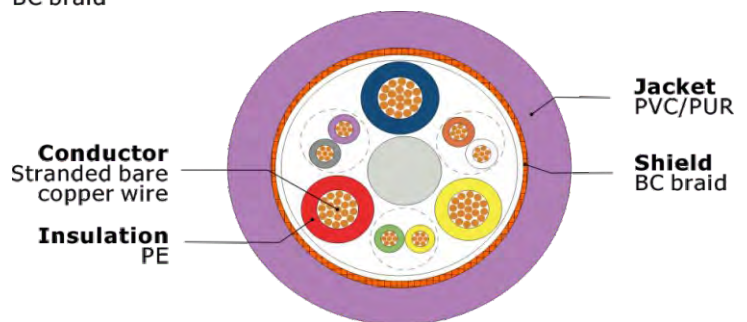
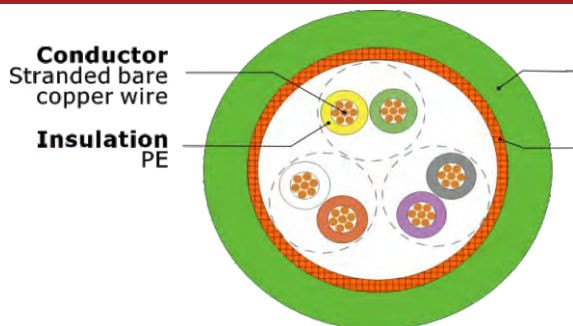
Conductor: Stranded bare copper wire
Insulation: PE
Shield: BC braid
Jacket: see attached list
Color: Green or purple



## Product Feature

- Oil and grease resistance
- Torsion resistance,Easy bending
- High braiding coverage,excellent Anti-EMI performance
- UV and Abrasion resistance,Anti-hydrolysis

## Cross Section







## Technical data

Temperature range	-40°C to 80°C
Test voltage	1500V 1min,no breakdown
Characteristic impedance	110±15 Ohm
Min bending radius	10x cable diameter
Loop conductor DC resistance at 20°C	3P≤159.8 ohm/km    3C≤44 ohm/km

## Product List:

Item No.	Spec.	Jacket	Nominal OD(mm)	Copper.weight approx (kg/km)	Weight approx (kg/km)
7131100	3*2*0.25mm <sup>2</sup>	PVC	7.5	32.5	63.5
7131101	3*2*0.25mm <sup>2</sup>	PUR	7.5	32.5	61
7131102	3*2*0.25mm <sup>2</sup> +3*1mm <sup>2</sup>	PVC	8.3	64	94
7131103	3*2*0.25mm <sup>2</sup> +3*1mm <sup>2</sup>	PUR	8.3	64	98

## Order Informations

Marking	HELLOSIGNAL Industrial INTERBUS Cable XXXFT/M
Package	100M/Reel, 300M/Wooden Spool
Delivery time	Normally 25 days after received the deposit.
Brand	HELLOSIGNAL® OR OEM

## Online Service

ICQ	+86 15088607575
Whatsapp	+86 15088607575
Email	info@zion-communication.com









# CC-Link Cable



## Application

Used to test sensor and propeller,with this cable,  
CC-Link system can handle control data and information data quickly.  
Apply to Automobile industry,Hotel monitor systems.

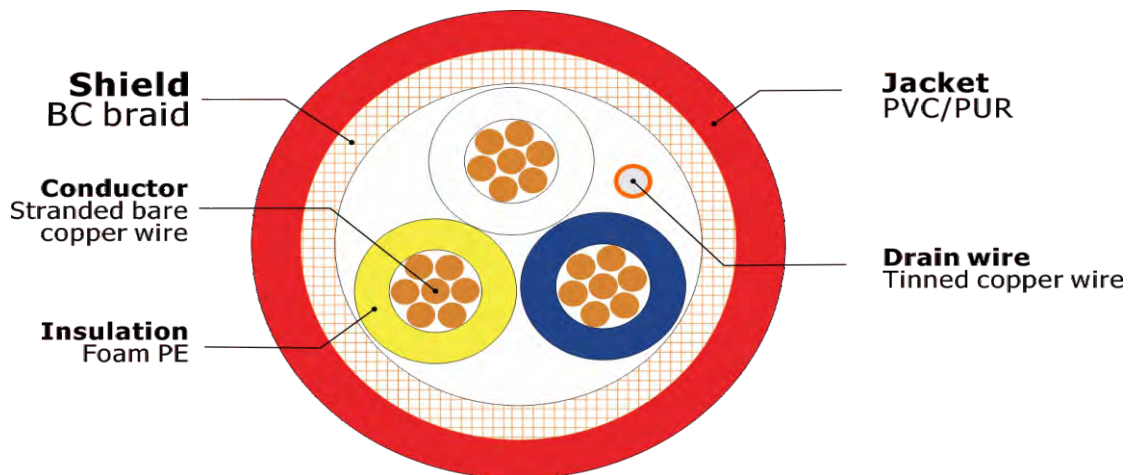
## Cable Construction

Conductor: Stranded bare copper wire	     
Insulation: Foam PE	
Drain wire: Tinned copper wire	
Shield: AL/Mylar screen and TC braid	
Jacket: see attached list	
Color: Red	

## Product Feature

Oil and grease resistance
AL/Mylar and copper wire braid,excellent Anti-EMI performance
Abrasion resistance,Anti-hydrolysis

## Cross Section





## Technical data

Temperature range	-40°C to 80°C
Test voltage	1500V 1min,no breakdown
Characteristic impedance	110±15 Ohm 110±6 Ohm (5MHz)
Min bending radius	15x cable diameter
Loop conductor DC resistance at 20	≤76 ohm/km

## Product List:

Item No.	Spec.	Jacket	Nominal OD(mm)	Copper.weight approx (kg/km)	Weight approx (kg/km)
7131200	3*1*20AWG	PVC	7.7	34	83
7131201	3*1*20AWG	PUR	7.7	34	80

## Order Informations

Marking	HELLOSIGNAL Industrial CC-Link Cable XXXFT/M
Package	100M/Reel, 300M/Wooden Spool
Delivery time	Normally 25 days after received the deposit.
Brand	HELLOSIGNAL® OR OEM

## Online Service

ICQ	+86 15088607575
Whatsapp	+86 15088607575
Email	info@zion-communication.com



# DeviceNet Cable



## Application

Used in DeviceNet Bus system,connect industrial equipment in automation process.It is a lower cost network solution with opening network standard.

## Cable Construction

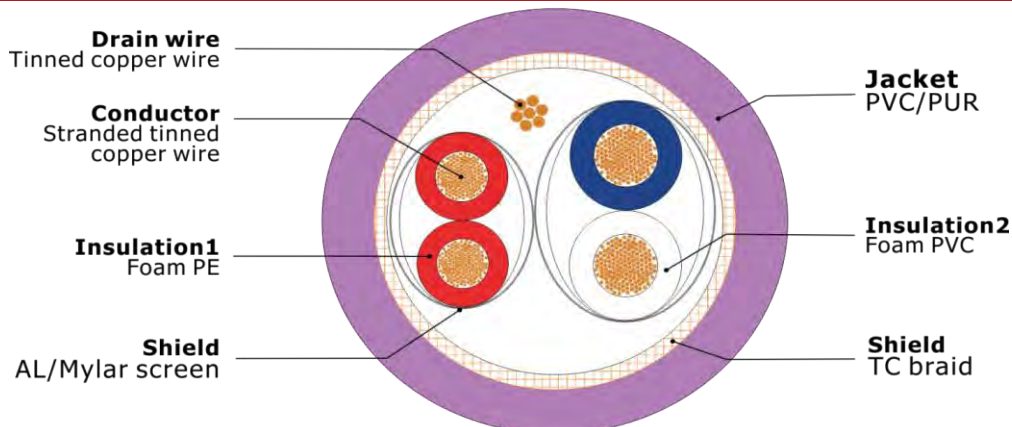
Conductor: Stranded tinned copper wire
Insulation1: Foam PE
Insulation2: PVC
Drain wire: Tinned copper wire
Shield: AL/Mylar screen and TC braid
Jacket: see attached list



## Product Feature

- Oil and grease resistance
- Torsion resistance,Easy bending
- Fire resistance meets IEC60332-1
- High braiding coverage,excellent Anti-EMI performance
- UV and Abrasion resistance,Anti-hydrolysis

## Cross Section





## Technical data

Temperature range	-40°C to 80°C
Test voltage	1500V 1min,no breakdown
Characteristic impedance	120±15 Ohm
Min bending radius	10x cable diameter
Conductor resistance at 20 °C	24AWG≤91.8 ohm/km
Insulation resistance at 20 °C	24AWG≥1000MΩ.Km

## Product List:

Item No.	Spec.	Jacket	Nominal OD(mm)	Copper.weight approx (kg/km)	Weight approx (kg/km)
7131300	2*24AWG+2*22AWG	PVC	7	32	65
7131301	2*24AWG+2*22AWG	PUR	7	32	63

## Order Informations

Marking	HELLOSIGNAL Industrial DeviceNet Cable XXXFT/M
Package	100M/Reel, 300M/Wooden Spool
Delivery time	Normally 25 days after received the deposit.
Brand	HELLOSIGNAL® OR OEM

## Online Service

ICQ	+86 15088607575
Whatsapp	+86 15088607575
Email	info@zion-communication.com



# PROFIBUS-DP Cable

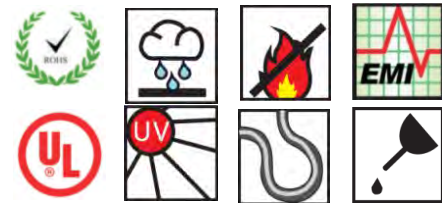


## Application

PROFIBUS-DP cable designed for industrial field bus systems automation and communication, Fixed installs in many places, specially designed flexible cable used in many applications, such as, manufacture, process control and building automation (power chains, moving machine parts) etc.

## Cable Construction

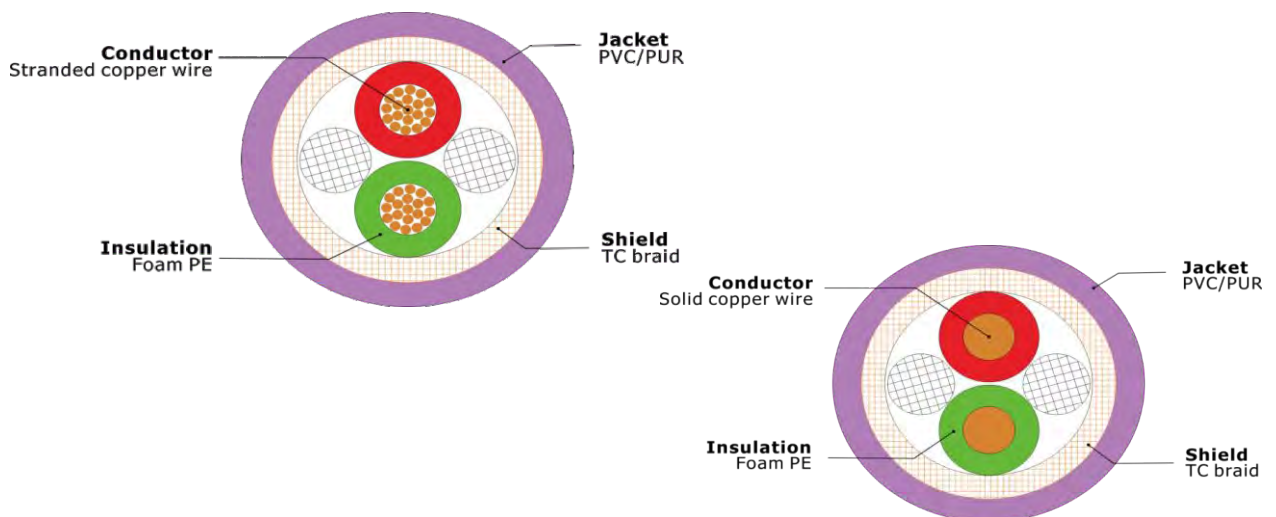
Conductor: Solid or Stranded copper wire
Insulation: Foam PE
Filler: (Optional)
Shield: AL/Mylar screen and TC braid
Jacket: see attached list
Color: Purple (similar to RAL 4001)



## Cable Construction

- AL/Mylar and tinned copper braid, excellent Anti-EMI performance
- Oil resistance, Abrasion resistance, Anti-hydrolysis
- Fire resistance meets IEC60332-1
- Easy bending
- UV resistance

## Cross Section





## Technical data

Temperature range	-40°C to 80°C
Peak voltage	300V
Characteristic impedance	150±15 Ohm
Min bending radius	Fixed installation: 8x cable diameter
	Moved installation: 15x cable diameter
Loop conductor DC resistance at 20°C	≤76 ohm/km

## Product List:

Item No.	Spec.	Inner Jacket	Outer Jacket	Nominal OD(mm)	Copper.wei ght approx (kg/km)	Weight approx (kg/km)	Application
7131400	1*2*22AWG/1	PVC	PVC	8	25	72	Fixed installation
7131401	1*2*22AWG/1	/	PUR	8	25	68	
7131402	1*2*22AWG/1	/	PVC	8	25	72.5	
7131403	1*2*22AWG/1	PVC	PE	8	25	61.5	
7131404	1*2*22AWG/1	PVC	PUR	8	25	68.5	
7131405	1*2*24AWG/19	PVC	PVC	8	25	72	Flexible installation
7131406	1*2*24AWG/19	/	PUR	8	25	68	
7131407	1*2*24AWG/19	/	PVC	8	25	72.5	
7131408	1*2*24AWG/19	PVC	PUR	8	25	68.5	

## Order Informations

Marking	HELLOSIGNAL Industrial PROFIBUS-DP Cable XXXFT/M
Package	100M/Reel, 300M/Wooden Spool
Delivery time	Normally 25 days after received the deposit.
Brand	HELLOSIGNAL® OR OEM

## Online Service

ICQ	+86 15088607575
Whatsapp	+86 15088607575
Email	info@zion-communication.com



# Industrial CAT5e Cable



## Application

Apply to complex industrial environment and moved installation.  
 Can be used in the system of EtherCAT and EtherNET/IP.  
 Application in electric power transportation metallurgy,water treatment and other industries.

## Cable Construction

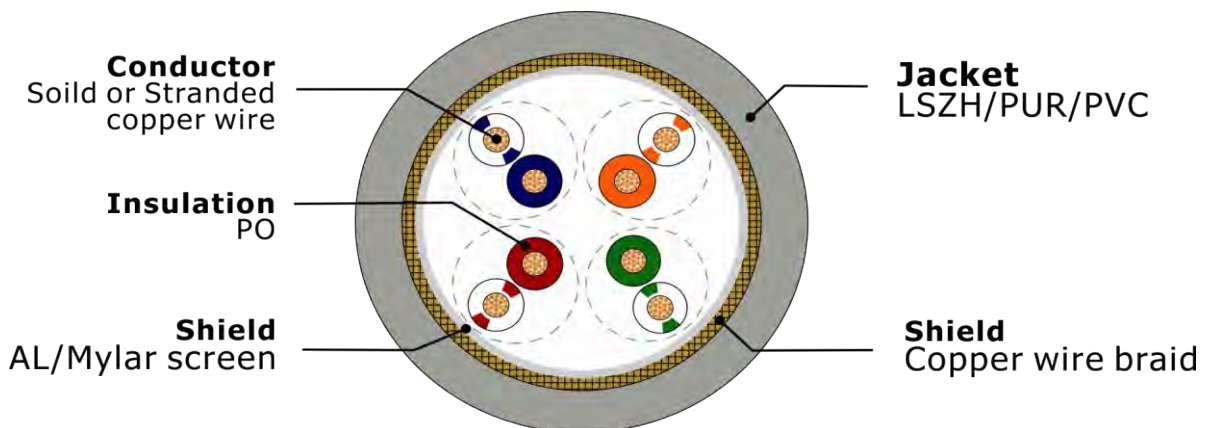
Conductor: Solid or stranded copper wire
Insulation: PO
Shield: AL/Mylar screen and copper wire braid
Jacket: see attached list
Color: grey(similar to RAL 7035)



## Product Feature

- Professional design,reduce the using cost.
- Double shielded cable,excellent Anti-EMI performance and Reliable transmission
- PUR jacket is resistant to oil,abrasion and hydrolysis
- Fire resistance meets IEC60332-1 UV resistance
- LSZH jacket have good performance of low smoke,halogen-free and high security

## Cross Section







## Technical data

Temperature range	-40°C to 80°C
Test voltage	1000V
Peak voltage	(Data transmission application)125V
Characteristic impedance 100±15 Ohm	100±15 Ohm
Min bending radius	Fixed installation: 8x cable diameter
	Occasional movement: 10x cable diameter
	Power Chain: 12x cable diameter
Other characteristics	According to ANSI/TIA-568 and IEC11801

## Product List:

Item No.	Spec.	Jacket	Nominal OD(mm)	Copper.weight approx (kg/km)	Weight approx (kg/km)	Application
7130000	4*2*AWG24/1	LSZH	6.8	32	54	Fixed installation
7130001	4*2*AWG24/1	PUR	6.8	32	52	
7130002	4*2*AWG24/1	PVC	6.8	32	54	
7130003	4*2*AWG26/7	LSZH	6.1	26	56	Occasional movement
7130004	4*2*AWG26/7	PUR	6.1	26	54	
7130005	4*2*AWG26/7	PVC	6.1	26	56	
7130006	4*2*AWG26/19	PVC	6.3	27	54	Power Chain
7130007	4*2*AWG26/19	PUR	6.3	27	54	

## Order Informations

Marking	HELLOSIGNAL Industrial CAT6 Cable XXXFT/M
Package	500FT/PULL BOX, 1000FT/Wooden Spool,Pallet ...
Delivery time	Normally 25 days after received the deposit.
Brand	HELLOSIGNAL® OR OEM

## Online Service

ICQ	+86 15088607575
Whatsapp	+86 15088607575
Email	info@zion-communication.com



# Industrial CAT6 Cable



## Application

Apply to complex industrial environment, power chain and moving mechanical components, used in electric power transportation, water treatment and other industries. At the same time, cable suitable for EtherCAT and Ethernet/IP system using.

## Cable Construction

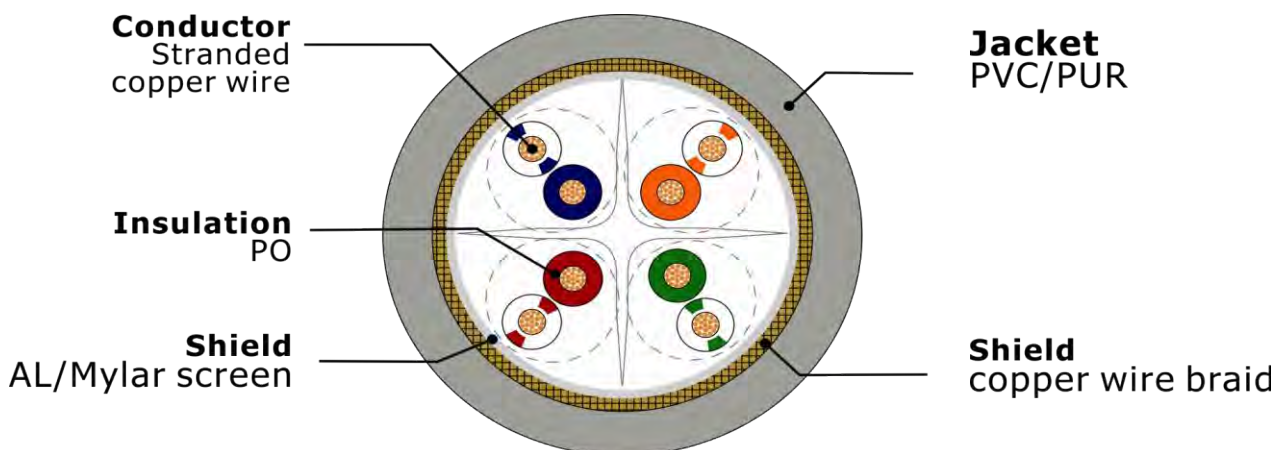
Conductor: Stranded copper wire
Insulation: PO
Shield: AL/Mylar screen and copper wire braid
Jacket: see attached list
Color: grey(similar to RAL 7035)



## Product Feature

- Professional design, reduce the using cost
- PUR jacket is resistant to oil, abrasion and hydrolysis
- Fire resistance meets IEC60332-1 UV resistance
- Easy bending
- UV resistance
- Double shielded cable, excellent Anti-EMI performance and reliable transmission

## Cross Section





## Technical data

Temperature range	-40°C to 80°C
Test voltage	1000V
Peak voltage Characteristic	(Data transmission application) 100V
impedance 100±15 Ohm	100±15 Ohm
Min bending radius	Fixed installation: 8x cable diameter
	Occasional movement: 15x cable diameter
Other characteristics	According to ANSI/TIA-568 and IEC11801

## Product List:

Item No.	Spec.	Jacket	Nominal OD(mm)	Copper.weight approx (kg/km)	Weight approx (kg/km)
7130100	4*2*AWG26/19	PVC	6.8	29	54
7130101	4*2*AWG26/19	PUR	6.8	29	54
7130102	4*2*AWG24/19	PVC	7.1	38	66
7130103	4*2*AWG24/19	PUR	7.1	38	66

## Order Informations

Marking	HELLOSIGNAL Industrial CAT6 Cable XXXFT/M
Package	500FT/PULL BOX, 1000FT/Wooden Spool,Pallet ...
Delivery time	Normally 25 days after received the deposit.
Brand	HELLOSIGNAL® OR OEM

## Online Service

ICQ	+86 15088607575
Whatsapp	+86 15088607575
Email	info@zion-communication.com



# Industrial CAT6A Cable



## Application

Apply to complex industrial environment, power chain and moving mechanical components, used in electric power transportation, water treatment and other industries. At the same time, cable suitable for EtherCAT and Ethernet/IP system using.

## Cable Construction

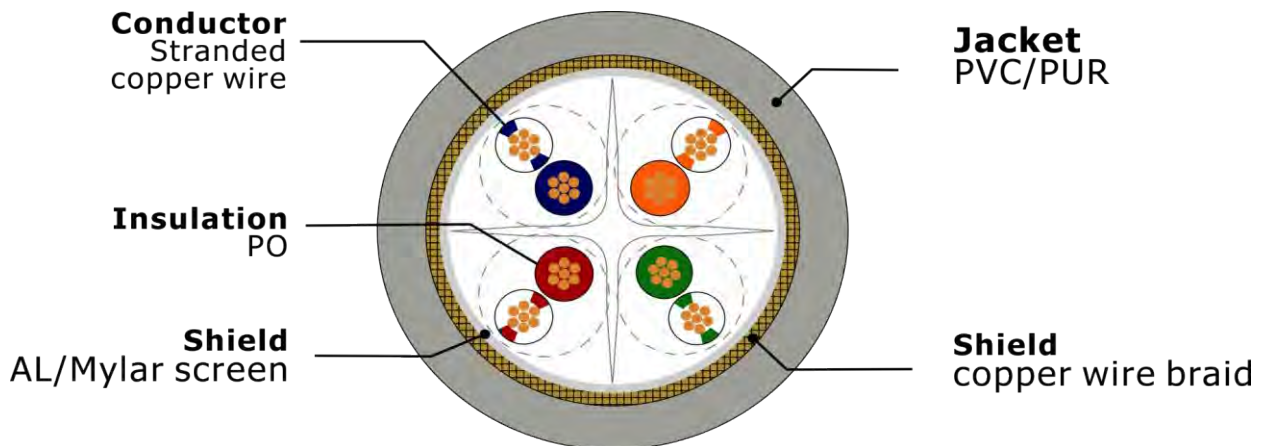
Conductor: Stranded copper wire
Insulation: PO
Shield: AL/Mylar screen and copper wire braid
Jacket: see attached list
Color: grey(similar to RAL 7035)



## Product Feature

- Professional design, reduce the using cost
- PUR jacket is resistant to oil, abrasion and hydrolysis
- Fire resistance meets IEC60332-1
- Easy bending
- UV resistance
- Double shielded cable, excellent Anti-EMI performance and reliable transmission

## Cross Section





## Technical data

Temperature range	-40°C to 80°C
Peak voltage Characteristic	(Data transmission application) 100V
impedance 100±15 Ohm	100±15 Ohm
Min bending radius	Fixed installation: 8x cable diameter Occasional movement: 15x cable diameter
Other characteristics	According to ANSI/TIA-568 and IEC11801

## Product List:

Item No.	Spec.	Jacket	Nominal OD(mm)	Copper.weight approx (kg/km)	Weight approx (kg/km)
7130200	4*2*AWG26/7	PVC	6.4	25	49
7130201	4*2*AWG26/7	PUR	6.4	25	47
7130202	4*2*AWG24/7	PVC	7.8	40	74
7130203	4*2*AWG24/7	PUR	7.8	40	72

## Order Informations

Marking	HELLOSIGNAL Industrial CAT6A Cable XXXFT/M
Package	500FT/PULL BOX, 1000FT/Wooden Spool,Pallet ...
Delivery time	Normally 25 days after received the deposit.
Brand	HELLOSIGNAL® OR OEM

## Online Service

ICQ	+86 15088607575
Whatsapp	+86 15088607575
Email	info@zion-communication.com



# Industrial CAT7 Cable



## Application

Apply to complex industrial environment, power chain and moving mechanical components, used in electric power transportation, water treatment and other industries. At the same time, cable suitable for EtherCAT and Ethernet/IP system using.

## Cable Construction

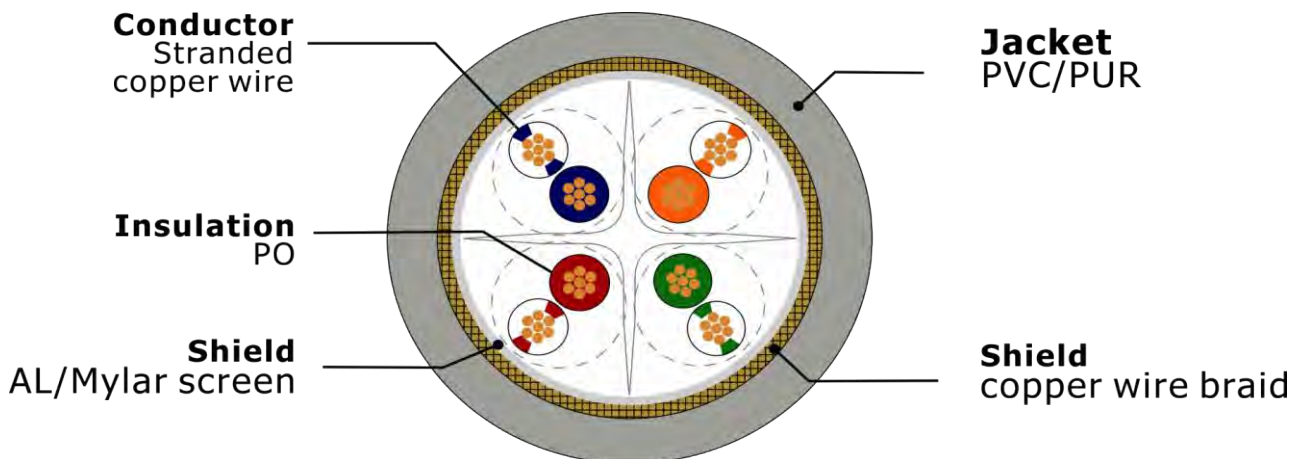
Conductor: Stranded copper wire
Insulation: PO
Shield: AL/Mylar screen and copper wire braid
Jacket: see attached list
Color: grey(similar to RAL 7035)



## Product Feature

- Professional design, reduce the using cost
- PUR jacket is resistant to oil, abrasion and hydrolysis
- Fire resistance meets IEC60332-1
- Easy bending
- UV resistance
- Double shielded cable, excellent Anti-EMI performance and reliable transmission

## Cross Section





## Technical data

Temperature range	-40°C to 80°C
Test voltage	1000V
Peak voltage Characteristic	(Data transmission application) 100V
impedance 100±15 Ohm	100±15 Ohm
Min bending radius	Fixed installation: 8x cable diameter Occasional movement: 15x cable diameter
Other characteristics	According to ANSI/TIA-568 and IEC11801

## Product List:

Item No.	Spec.	Jacket	Nominal OD(mm)	Copper.weight approx (kg/km)	Weight approx (kg/km)
7130300	4*2*AWG26/7	PVC	6.4	25	49
7130301	4*2*AWG26/7	PUR	6.4	25	47
7130302	4*2*AWG24/7	PVC	7.8	40	74
7130303	4*2*AWG24/7	PUR	7.8	40	72

## Order Informations

Marking	HELLOSIGNAL Industrial CAT7 Cable XXXFT/M
Package	500FT/PULL BOX, 1000FT/Wooden Spool,Pallet ...
Delivery time	Normally 25 days after received the deposit.
Brand	HELLOSIGNAL® OR OEM

## Online Service

ICQ	+86 15088607575
Whatsapp	+86 15088607575
Email	info@zion-communication.com





# RS-485



## Application

Comply to RS-485 communication protocol, apply to complicated controlled network of industrial automation and self-control network communication of building. Different cable design can be used in different application.

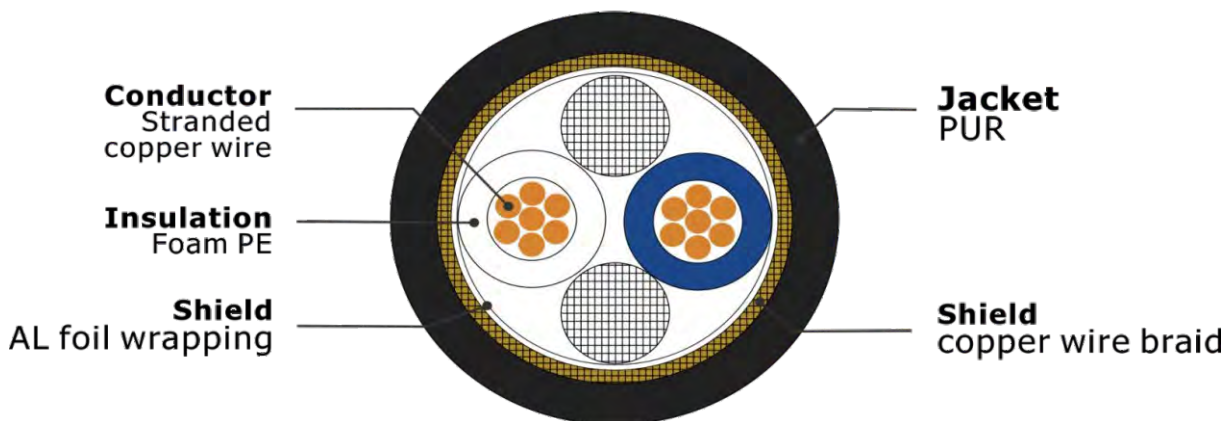
## Cable Construction

Conductor: Stranded copper wire	        
Insulation: Foam PE	
Drain wire: Tinned copper wire	
Shield: AL foil wrapping and copper wire braid	
Jacket: see attached list	
Color: Color: Black or other colors	

## Product Feature

- Oil and grease resistance
- Torsion resistance, Easy bending
- Fire resistance meets IEC60332-1
- AL/Mylar and copper wire braid, excellent Anti-EMI performance
- UV and Abrasion resistance, Anti-hydrolysis

## Cross Section







## Technical data

Temperature range	-40°C to 80°C
Test voltage	1500V 1min,no breakdown
Peak voltage	250V
Characteristic impedance 100±15 Ohm	120±15 Ohm
Min bending radius	Fixed installation: 8x cable diameter
	Moved installation: 15x cable diameter
Conductor DC resistance	0.22mm <sup>2</sup> ≤186 ohm/km
	0.25mm <sup>2</sup> ≤159.8 ohm/km

## Product List:

Item No.	Spec.	Jacket	Nominal OD(mm)	Copper.weight approx (kg/km)	Weight approx (kg/km)	Application
7130400	1*2*0.22mm <sup>2</sup>	PVC	5.9	17	37	Power Chain
7130401	2*2*0.22mm <sup>2</sup>	PVC	7.6	28	55	
7130402	3*2*0.22mm <sup>2</sup>	PVC	8.2	37	72	
7130403	1*2*0.25mm <sup>2</sup>	PUR	6	18	39	Fixed chain
7130404	2*2*0.25mm <sup>2</sup>	PUR	7.9	33	65	
7130405	3*2*0.25mm <sup>2</sup>	PUR	8	39	77	

## Order Informations

Marking	HELLOSIGNAL Industrial RS-485 Cable XXXFT/M
Package	500FT/PULL BOX, 1000FT/Wooden Spool,Pallet ...
Delivery time	Normally 25 days after received the deposit.
Brand	HELLOSIGNAL® OR OEM

## Online Service

ICQ	+86 15088607575
Whatsapp	+86 15088607575
Email	info@zion-communication.com



# PROFINET Copper Cable type A



## Application

The cable is specially designed for PROFINET and is widely used in industrial Ethernet applications such as machines, equipment, instruments and control panels. The electrical properties are in accordance with CAT5e standard. PROFINET copper cable type A suitable for fixed applications.

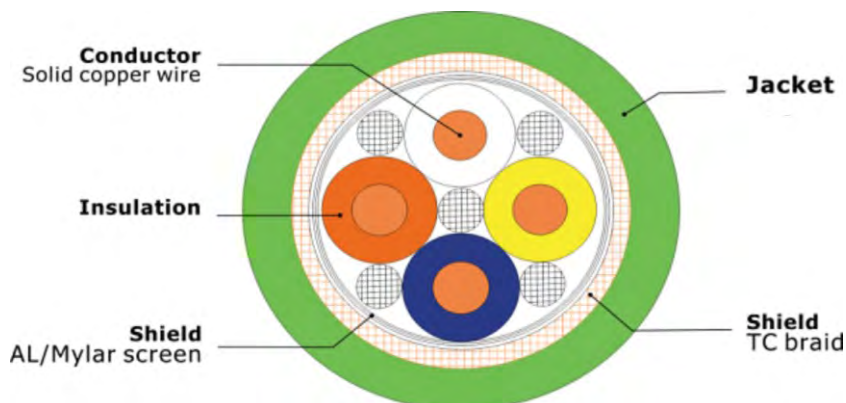
## Features

- Flame resistance according to IEC60332-1
- Have good performance of resistant to external EMI
- LSZH (Halogen free, low smoke) & PVC for cable's Jacket
- Excellent transmission performance
- The cables have excellent tensile and compressive properties.

## Cable Construction

Conductor:	Solid Copper (Class1)
Insulation:	PE
Insulation color:	White, Yellow, Blue, Orange
Inner jacket:	PVC or LSZH
Shield:	AL/Mylar screen and TC braid
Outer jacket:	PVC or LSZH
Color:	Green RAL 6018

## Cross Section





## Technical parameters

Temperature range	-40°C to 80°C
Characteristic impedance	100±15 Ohm
Min bending radius	Fixed installation: 4x cable diameter
Loop conductor DC resistance at 20°C	≤60 ohm/km
Test voltage	2000V/min (AC)

## Product List:

Item No.	Spec.	Inner Jacket	Outer Jacket	Nominal OD(mm)	Copper weight approx (kg/km)	Weight approx (kg/km)	Application
7131511	4*22AWG/1	PVC	PVC	6.5	28.9	67.6	Fixed installation
7131512	4*22AWG/1	LSZH	LSZH	6.5	28.9	68.6	

## Order Informations

Marking	HELLOSIGNAL PROFINET Copper Cable Type A XXXFT/M
Package	100M/Reel, 300M/Wooden Spool
Delivery time	Normally 25 days after received the deposit.
Brand	HELLOSIGNAL® OR OEM

## Online Service

ICQ	+86 15088607575
Whatsapp	+86 15088607575
Email	info@zion-communication.com



## PROFINET Copper Cable type B



### Application

The cable is specially designed for PROFINET and is widely used in industrial Ethernet applications such as machines, equipment, instruments and control panels.

The electrical properties are in accordance with CAT5e standard.

PROFINET copper cable type B suitable for fixed applications or occasional movement.

### Features

Flame resistance according to IEC60332-1

Have good performance of resistant to external EMI

LSZH (Halogen free, low smoke) & PVC for cable's Jacket

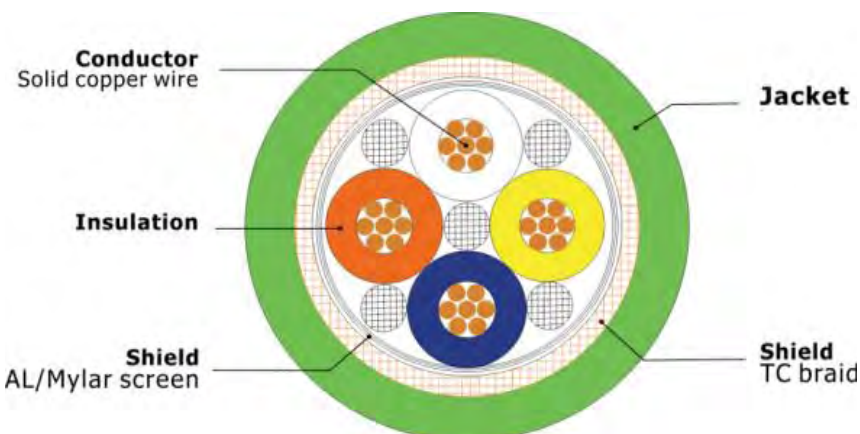
Excellent transmission performance

The cables have excellent tensile and compressive properties.

### Cable Construction

Conductor:	Stranded Tinned Copper
Insulation:	PE
Insulation color:	White, Yellow, Blue, Orange
Inner jacket:	PVC or LSZH
Shield:	AL/Mylar screen and TC braid
Outer jacket:	PVC or LSZH
Color:	Green RAL 6018

### Cross Section





## Technical parameters

Temperature range	-40°C to 80°C
Characteristic impedance	100±15 Ohm
Min bending radius	Fixed installation: 4x cable diameter Occasional movement: 8x cable diameter
Loop conductor DC resistance at 20°C	≤60 ohm/km
Test voltage	2000V/min (AC)

## Product List:

Item No.	Spec.	Inner Jacket	Outer Jacket	Nominal OD(mm)	Copper. weight approx (kg/km)	Weight approx (kg/km)	Application
7131513	4*22AWG/7	PVC	PVC	6.5	29.5	68.3	Fixed installation
7131514	4*22AWG/7	LSZH	LSZH	6.5	29.5	69.3	

## Order Informations

Marking	HELLOSIGNAL PROFINET Copper Cable Type B XXXFT/M
Package	100M/Reel, 300M/Wooden Spool
Delivery time	Normally 25 days after received the deposit.
Brand	HELLOSIGNAL® OR OEM

## Online Service

ICQ	+86 15088607575
Whatsapp	+86 15088607575
Email	info@zion-communication.com



## PROFINET Copper Cable type C



### Application

The cable is specially designed for PROFINET and is widely used in industrial Ethernet applications such as machines, equipment, instruments and control panels.

The electrical properties are in accordance with CAT5e standard.

PROFINET copper cable type C suitable for fixed applications or occasional movement.

### Features

Flame resistance according to IEC60332-1

Have good performance of resistant to external EMI

The PUR sheath is particularly creamy, abrasion and hydrolysis resistant

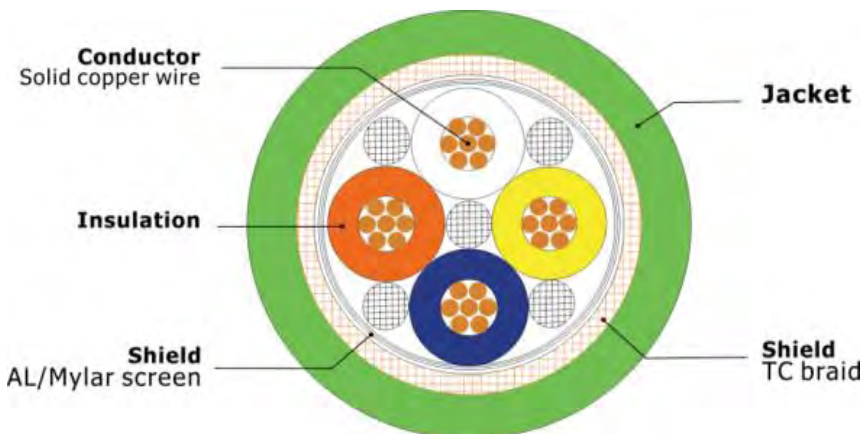
Excellent transmission performance

The cables have excellent tensile, flexibility, and compressive properties.

### Cable Construction

Conductor:	Stranded Tinned Copper
Insulation:	PE
Insulation color:	White, Yellow, Blue, Orange
Inner jacket:	PVC or LSZH
Shield:	AL/Mylar screen and TC braid
Outer jacket:	PVC or PUR
Color:	Green RAL 6018

### Cross Section





## Technical parameters

Temperature range	Fixed installation: -40°C to 80°C Occasional movement: -45°C to 60°C
Characteristic impedance	100±15 Ohm
Min bending radius	Fixed installation: 4x cable diameter Occasional movement: 8x cable diameter
Loop conductor DC resistance at 20°C	≤60 ohm/km
Test voltage	2000V/min (AC)

## Product List:

Item No.	Spec.	Inner Jacket	Outer Jacket	Nominal OD(mm)	Copper weight approx (kg/km)	Weight approx (kg/km)	Application
7131515	4*22AWG/19	PVC	PVC	6.5	29.5	66.7	Fixed
7131516	4*22AWG/19	LSZH	PUR	6.5	29.5	65.5	installation

## Order Informations

Marking	HELLOSIGNAL PROFINET Copper Cable Type C XXXFT/M
Package	100M/Reel, 300M/Wooden Spool
Delivery time	Normally 25 days after received the deposit.
Brand	HELLOSIGNAL® OR OEM

## Online Service

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● GLOBAL MARKET



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