



## Application

SY cables are flexible, steel wire braided connecting cables designed for use in control systems, tooling machinery, and production lines. They are suitable for flexible installations where mechanical protection is required. The galvanized steel braid provides effective shielding against mechanical stress. Outdoor use is not recommended unless adequate protection is provided.

## Characteristics

**Voltage Rating** 300/500v

**Temperature in operation** -30°C to +70°C (Fixed)

**Min. bending radius** 7.5 x OD

## Construction

### Conductor

Stranded electrolytic copper wire Class5, (BS EN 60228:2005)

### Insulation

PVC (Polyvinyl Chloride)

### Bedding

PVC (Polyvinyl Chloride)

### Screen

Galvanised steel wire braiding (%50-55)

### Outer Sheath

PVC (Polyvinyl Chloride)

## Core Identification

**OZ** - Black coloured, cores numbered

**JZ** - Black coloured, cores numbered + Green/Yellow

**OB / JB** - Coloured cores according to HD 308.1

## Sheath Colour

Transparent

## Standards

IEC 60332-1-2, BS EN 60228, EN 50363-3 T12, EN 50363-4-1 TM2)

## Regulatory Compliance



RESPONSIBLY  
PRODUCED  
COPPER

The Copper Mark Partnership

- IEWC promotes sustainable practices by our suppliers
- Copper Mark promotes seven of 17 UN Global Sustainability Goals
- Copper Mark recipients cover
- 20% of global copper production

Cross Section (mm <sup>2</sup> )	Overall Diameter (mm)	Weight (kg/km)
2x0.75	7.00	70.30
3x0.75	7.30	79.29
4x0.75	7.80	91.58
5x0.75	9.00	119.06
7x0.75	9.50	140.97
12x0.75	11.50	211.27
18x0.75	13.70	302.04
25x0.75	16.40	415.28
2x1	7.40	79.86
3x1	7.60	89.12
4x1	8.80	118.35
5x1	9.40	137.72
7x1	9.80	162.81
12x1	12.10	246.85
18x1	14.50	355
25x1	17.20	487.42
2x1.5	7.80	92.98
3x1.5	8.60	118.58
4x1.5	9.40	142.76
5x1.5	9.90	165.63
7x1.5	10.50	200.47
12x1.5	13.50	325.73
18x1.5	15.70	450.46
25x1.5	19.00	629.99
3x2.5	9.70	163.64
4x2.5	10.40	193.34
5x2.5	11.50	237.15
7x2.5	12.40	299.34
12x2.5	15.50	471.32
18x2.5	18.60	681.01
3x4	11.20	226.83
4x4	12.30	281.25

This datasheet is for guidance only. While we believe the information is accurate at the time of publication, it is subject to manufacturing tolerances.

Cross Section (mm <sup>2</sup> )	Overall Diameter (mm)	Weight (kg/km)
5x4	13.50	344.07
7x4	14.40	428.64
3x6	13.20	325.72
4x6	14.50	399.75
5x6	15.80	485.68
7x6	17.40	630.47
3x10	16.30	519.59
4x10	17.70	637.57
5x10	19.50	778.47
3x16	18.60	730.42
4x16	20.70	928.51
5x16	22.90	1135.92
4x25	26.20	1450.33
5x25	29.10	1789.61
4x35	29.70	1924.01
5x35	33.00	2372.49
4x50	35.10	2720.64
4x70	39.80	3645.99

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