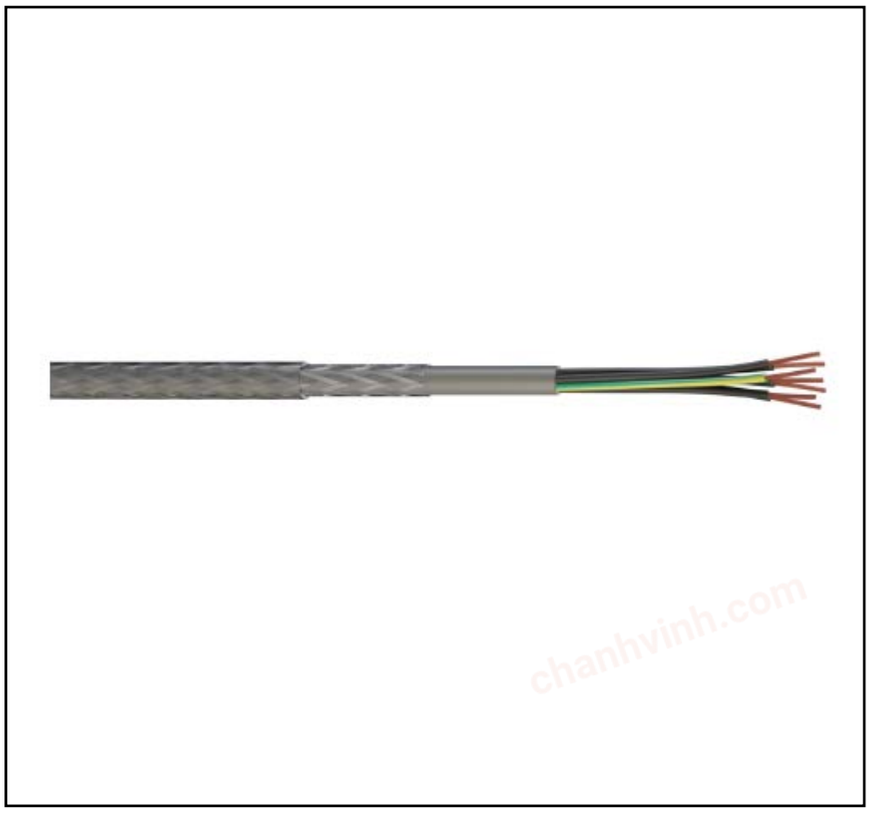
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FEATURES

- Plain Annealed Flexible Copper Conductor
- PVC Insulated
- PVC Bedding
- GSWB (Galvanised Steel Wire Braid)
- PVC Sheathed. 300/500V

RS PRO SY Cable

RS Stock No.: 2080524



RS Professionally Approved Products bring to you professional quality parts across all product categories. Our product range has been tested by engineers and provides a comparable quality to the leading brands without paying a premium price.

SY Cable

Product Description

The cable is designed to be used as interconnecting cable for measuring, controlling or regulation in control equipment for assembly and production lines, conveyors and for computer units. It is commonly used in a wide number of industries including building and construction, rail and transport infrastructures, transmission and automation and process control. This cable is also used by electricians in certain fixed installations where only light mechanical stress may occur. This cable can also be used outdoors (but should be protected); however, it is best suited to dry or moist conditions indoors.

General Specifications

Sheath Material	Clear PVC Type TM2 to B EN 50363-4-1
Braiding	GSWB (Galvanised Steel Wire Braid)
Bedding Material	PVC Type TM2 to B EN 50363-4-1

Electrical Specifications

Current Rating	For current ratings refer to table 4F1 and 4F3 of BS7671 IEE Wiring Regulations Seventeenth Edition.
Conductor Material	Plain Annealed Copper Class 5 to BS EN 60228
Insulation Material	PVC Type TI2 to BS EN 50363-3

Mechanical Specifications

Length	100m
Number of Cores	3
Minimum Bend Radius	6 x Ø
Nominal Cross Sectional Area of Conductor	2.5
Nominal Stranding of Conductor (mm)	50/0.25mm
Nominal Radial Thickness of insulation (mm)	0.5mm
Nominal Radial Thickness of bedding (mm)	0.4mm
Nominal Radial Thickness of sheath (mm)	1.0mm
Approximate Overall Diameter Lower Limit	9.7
Approximate Overall Diameter Upper Limit	11.7
Approximate Weight (kg/km)	184 kg/km

SY Cable

Operation Environment Specifications

Minimum Operating Temperature	-15°C
Maximum Operating Temperature	70°C

Approvals

Standards Met	BS EN 50525-2-11:2011



XT Gland Chart

Size mm²	Number of Cores							
	2	3	4	5	7	12	18	25
0.75	20S	20S	20S	20S	20S	20	25	25
1.0	20S	20S	20S	20S	20S	20	25	25
1.5	20S	20S	20S	20	20	25	25	32
2.5	-	20	20	20	25	25	25	
4.0	-	20	20	25	25			
6.0	-	25	25	25				
10.0	-	25	32	32				
16.0	-	32	32	40				
25.0	-	-	40	40				
35.0	-	-	40	40				

Multicore Loading

In practice, the majority of cores in a multicore control cable of 7 cores and above carry only small or intermittent current and a current rating based on the assumption that all cores are equally loaded is quite unrealistic. In most cases only two cores, the line and neutral feed cores are likely to approach the maximum permitted loading. The current rating for twin core cable can therefore be used in these cables. Where more than two cores are known to carry an appreciable current, the multiplying factors applicable to the two core ratings are given below. The normal current rating for twin cable may also be used in cases where the number of cores carrying appreciable current does not exceed the square root of the total number of cores in the cable.

Number of loaded cores	3	4	5	6	7	10	12	14
Multiplying factor	0.87	0.78	0.72	0.67	0.63	0.56	0.53	0.51

Number of loaded cores	19	24	27	30	37	44	46	48
Multiplying factor	0.45	0.42	0.40	0.39	0.36	0.34	0.33	0.33

SY Cable

Similar Products

Parameters	2080516	2080517	2080518	2080520
Brand	**RS PRO**	**RS PRO**	**RS PRO**	**RS PRO**
Sheath Material	Clear PVC Type TM2 to B EN 50363-4-1	Clear PVC Type TM2 to B EN 50363-4-1	Clear PVC Type TM2 to B EN 50363-4-1	Clear PVC Type TM2 to B EN 50363-4-1
Braiding	GSWB (Galvanised Steel Wire Braid)	GSWB (Galvanised Steel Wire Braid)	GSWB (Galvanised Steel Wire Braid)	GSWB (Galvanised Steel Wire Braid)
Bedding Material	PVC Type TM2 to B EN 50363-4-1	PVC Type TM2 to B EN 50363-4-1	PVC Type TM2 to B EN 50363-4-1	PVC Type TM2 to B EN 50363-4-1
Current Rating	For current ratings refer to table 4F1 and 4F3 of BS7671 IEE Wiring Regulations Seventeenth Edition.	For current ratings refer to table 4F1 and 4F3 of BS7671 IEE Wiring Regulations Seventeenth Edition.	For current ratings refer to table 4F1 and 4F3 of BS7671 IEE Wiring Regulations Seventeenth Edition.	For current ratings refer to table 4F1 and 4F3 of BS7671 IEE Wiring Regulations Seventeenth Edition.
Conductor Material	Plain Annealed Copper Class 5 to BS EN 60228	Plain Annealed Copper Class 5 to BS EN 60228	Plain Annealed Copper Class 5 to BS EN 60228	Plain Annealed Copper Class 5 to BS EN 60228
Insulation Material	PVC Type TI2 to BS EN 50363-3	PVC Type TI2 to BS EN 50363-3	PVC Type TI2 to BS EN 50363-3	PVC Type TI2 to BS EN 50363-3
Minimum Operating Temperature	-15°C	-15°C	-15°C	-15°C
Maximum Operating Temperature	70°C	70°C	70°C	70°C
Length	50m	100m	100m	100m
Minimum Bend Radius	6 x Ø	6 x Ø	6 x Ø	6 x Ø
Nominal Cross Sectional Area of Conductor	1.0	1.0	1.0	1.0