Flexible Armoured SY PVC (YSLYSY) Multicore Control Cable

multicompPRO

RoHS Compliant

Application

These steel wire braided flexible connecting cables for instrumentation and control equipment, for tooling machinery production lines, and in flexible applications for free movement without tensile load. Suitable for use in dry, moist and wet rooms. The galvanised steel wire braid serves as protection against mechanical traverse loads and acts as a magnetic screen against interference. These cables are not used for outdoor or underground installation.

SY control cables are not suitable for fixed wiring applications requiring compliance with the regulations set out in BS7671.

Characteristics

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

Cable Standards

VDE 0207-363-3, VDE 0285-525-2-51, VDE 0285-525-1, VDE 0285-525-2-11, VDE 0482-332-1-2, VDE 819-102 (TM54)
Flame Retardant according to IEC 60332-1-2

UK Laboratory Tested

This product is subject to the Quality Assurance protocols of The Cable Lab®, a UKAS accredited ISO 17025 cable testing laboratory. Testing includes vertical flame, conductor resistance, tensile & elongation, and dimensional consistency, verified to published standards and approved product drawings.

Regulatory Compliance

This cable meets the requirements of the Low Voltage Directive 2014/35/EU and the RoHS Directive 2011/65/EU. RoHS compliance has been tested and confirmed by The Cable Lab® as meeting the requirements of the BSI RoHS Trusted Kitemark™.

Construction

Conductor

Class 5 flexible plain copper wires

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Insulation
PVC (Polyvinyl Chloride)

Inner Sheath
PVC (Polyvinyl Chloride)

Armour
GSWB (Galvanised Steel Wire Braid)

Sheath
PVC (Polyvinyl Chloride)

Core Identification
Black with white number
From 3 cores: Black with white number + Green/Yellow

Sheath Colour
Transparent

Dimensions

Part Number	No. of Cores	Nominal Cross Sectional Area mm²	Nominal Thickness of Insulation mm	Nominal Thickness of Sheath mm	Nominal Overall Diameter mm	Nominal Weight kg/km
PP001584	2	0.75	0.4	0.8	7.2	79.3
PP001585	2	1	0.4	0.8	7.6	91
PP001586	2	1.5	0.4	0.8	8.2	110
PP001587	3	0.75	0.4	0.8	7.5	91.3
PP001588	3	1	0.4	0.8	7.9	104
PP001589	3	1.5	0.4	0.8	8.6	129
PP001590	3	2.5	0.5	0.9	10.1	185
PP001591	3	4	0.6	1	12	269
PP001592	3	6	0.65	1.1	13.5	354
PP001593	4	0.75	0.4	0.8	8	107
PP001594	4	1	0.4	0.8	8.5	124
PP001595	4	1.5	0.4	0.8	9.2	151
PP001596	4	2.5	0.5	0.9	11.1	230
PP001597	4	4	0.6	1.1	13.2	332
PP001598	4	6	0.65	1.2	14.8	442
PP001599	5	0.75	0.4	0.8	8.5	120
PP001600	5	1	0.4	0.8	9.1	140
PP001601	5	1.5	0.4	0.9	10.1	182
PP001602	5	2.5	0.5	1	12.1	266
PP001603	5	4	0.6	1.1	14.2	382
PP001604	5	6	0.65	1.3	16.5	525
PP001605	7	0.75	0.4	0.8	9.1	147

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Part Number	No. of Cores	Nominal Cross Sectional Area mm²	Nominal Thickness of Insulation mm	Nominal Thickness of Sheath mm	Nominal Overall Diameter mm	Nominal Weight kg/km
PP001606	7	1	0.4	0.9	9.9	181
PP001607	7	1.5	0.4	0.9	11	226
PP001608	7	2.5	0.5	1.1	13.2	338
PP001578	12	0.75	0.4	1	10.9	237
PP001579	12	1	0.4	1	12.7	280
PP001580	12	1.5	0.4	1.1	14.2	365
PP001581	18	0.75	0.4	1.1	13.7	322
PP001582	18	1	0.4	1.2	14.9	396
PP001583	18	1.5	0.4	1.3	16.8	521

Electrical Characteristics

Nominal Cross Sectional Area mm²	Current Carrying Capacities 30°C Continuous Loading A	Maximum Resistance of Conductor at 20°C Ω/km
0.75	12	26
1	15	19.5
1.5	18	13.3
2.5	26	7.98
4	34	4.95
6	44	3.3

Part Number Table

Description	No. of Cores	Nominal Cross Sectional Area mm²	Reel Length	Part Number
Flexible Armoured SY PVC (YSLYSY) Multicore Control Cable	2	0.75	50m	PP001584
	2	1		PP001585
	2	1.5		PP001586
	3	0.75		PP001587
	3	1		PP001588
	3	1.5		PP001589
	3	2.5		PP001590
	3	4		PP001591
	3	6		PP001592
	4	0.75		PP001593
	4	1		PP001594

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Description	No. of Cores	Nominal Cross Sectional Area mm²	Reel Length	Part Number
Flexible Armoured SY PVC (YSLYSY) Multicore Control Cable	4	1.5	50m	PP001595
	4	2.5		PP001596
	4	4		PP001597
	4	6		PP001598
	5	0.75		PP001599
	5	1		PP001600
	5	1.5		PP001601
	5	2.5		PP001602
	5	4		PP001603
	5	6		PP001604
	7	0.75		PP001605
	7	1		PP001606
	7	1.5		PP001607
	7	2.5		PP001608
	12	0.75		PP001578
	12	1		PP001579
	12	1.5		PP001580
	18	0.75		PP001581
	18	1		PP001582
	18	1.5		PP001583

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