



SY

SY cables are number coded control and connecting cables for flexible use and fixed installation for medium mechanical use. They are for use in dry, damp and wet rooms. They may only be installed outdoors with UV-protection and in observation of the temperature range. At room temperature it is generally resistant against acids, caustics solutions and certain oils. SY cables are used as supply and interconnecting cable for controlling machine tools, production lines, control equipment on conveyors, also for use in measuring regulating and computer units. Suitable for free movement without forced guidance and tensile stress. The braiding of galvanized steel wires are an additional mechanical protection.

Technical Data

Conductor	: Bare copper, fine wire strand in accordance to IEC 60 228 that is VDE 0295, class 5
Core insulation	: PVC compound TI1 in accordance to VDE 0207
Identification	: In acc. to VDE 0293, black cores with white numbers with or without green / yellow ground conductor
Inner sheath	: PVC compound TM2 in acc. to VDE 0207
Braid	: Galvanised steel wire braid
Outer sheath	: Transparent PVC compound TM2 in acc. to VDE 0207
Nominal voltage	: 300 / 500 V
Test voltage	: 3,000 V ac
Temperature range	: For flexible use -5 up to +70°C maximum conductor temperature Fixed installation -40 up to +80°C maximum conductor temperature
Minimum bending radius	: Fixed installation 12.5 × cable diameter
Flame retardant	: In acc. to IEC 60 332.1 resp. VDE 0472 part 804
EC directive	: This cable confirms to ECD 73 / 23 / EEC (low voltage directive)

Specification Table

Description	Number of Cores × Cross Sectional Area (mm ²)	Outer Diameter (mm)	Weight Kg / Km	Part Number
Cable, SY, 3 Core, 0.75 mm, 50M	3 × 0.75	7.9	113	PPSY3C0.75 50M
Cable, SY, 4 Core, 0.75 mm, 50M	4 × 0.75	8.5	129	PPSY4C0.75 50M
Cable, SY, 5 Core, 0.75 mm, 50M	5 × 0.75	9.2	148	PPSY5C0.75 50M
Cable, SY, 7 Core, 0.75 mm, 50M	7 × 0.75	9.9	174	PPSY7C0.75 50M
Cable, SY, 3 Core, 1 mm, 50M	3 × 1	8.3	125	PPSY3C1.00 50M
Cable, SY, 4 Core, 1 mm, 50M	4 × 1	8.9	145	PPSY4C1.00 50M
Cable, SY, 5 Core, 1 mm, 50M	5 × 1	9.6	168	PPSY5C1.00 50M
Cable, SY, 7 Core, 1 mm, 50M	7 × 1	10.4	144	PPSY7C1.00 50M
Cable, SY, 3 Core, 1.5 mm, 50M	3 × 1.5	9	151	PPSY3C1.50 50M
Cable, SY, 4 Core, 1.5 mm, 50M	4 × 1.5	9.7	176	PPSY4C1.50 50M
Cable, SY, 5 Core, 1.5 mm, 50M	5 × 1.5	10.6	207	PPSY5C1.50 50M
Cable, SY, 7 Core, 1.5 mm, 50M	7 × 1.5	11.5	264	PPSY7C1.50 50M

Specification Table

Description	Number of Cores × Cross Sectional Area (mm ²)	Outer Diameter (mm)	Weight Kg / Km	Part Number
Cable, SY, 3 Core, 2.5 mm, 50M	3 × 2.5	10.6	206	PPSY3C2.50 50M
Cable, SY, 4 Core, 2.5 mm, 50M	4 × 2.5	11.5	260	PPSY4C2.50 50M
Cable, SY, 5 Core, 2.5 mm, 50M	5 × 2.5	12.6	307	PPSY5C2.50 50M
Cable, SY, 7 Core, 2.5 mm, 50M	7 × 2.5	13.9	374	PPSY7C2.50 50M
Cable, SY, 3 Core, 0.75 mm, Per M	3 × 0.75	7.9	113	PPSY3C0.75
Cable, SY, 4 Core, 0.75 mm, Per M	4 × 0.75	8.5	129	PPSY4C0.75
Cable, SY, 5 Core, 0.75 mm, Per M	5 × 0.75	9.2	148	PPSY5C0.75
Cable, SY, 7 Core, 0.75 mm, Per M	7 × 0.75	9.9	174	PPSY7C0.75
Cable, SY, 3 Core, 1 mm, Per M	3 × 1	8.3	125	PPSY3C1.00
Cable, SY, 4 Core, 1 mm, Per M	4 × 1	8.9	145	PPSY4C1.00
Cable, SY, 5 Core, 1 mm, Per M	5 × 1	9.6	168	PPSY5C1.00
Cable, SY, 7 Core, 1 mm, Per M	7 × 1	10.4	144	PPSY7C1.00
Cable, SY, 3 Core, 1.5 mm, Per M	3 × 1.5	9	151	PPSY3C1.50
Cable, SY, 4 Core, 1.5 mm, Per M	4 × 1.5	9.7	176	PPSY4C1.50
Cable, SY, 5 Core, 1.5 mm, Per M	5 × 1.5	10.6	207	PPSY5C1.50
Cable, SY, 7 Core, 1.5 mm, Per M	7 × 1.5	11.5	264	PPSY7C1.50
Cable, SY, 3 Core, 2.5 mm, Per M	3 × 2.5	10.6	206	PPSY3C2.50
Cable, SY, 4 Core, 2.5 mm, Per M	4 × 2.5	11.5	260	PPSY4C2.50
Cable, SY, 5 Core, 2.5 mm, Per M	5 × 2.5	12.6	307	PPSY5C2.50
Cable, SY, 7 Core, 2.5 mm, Per M	7 × 2.5	13.9	374	PPSY7C2.50
Cable, SY, 12 Core, 0.75 mm, 50M	12 G 0.75	12.9	260	PPSY12C0.75 50M
Cable, SY, 18 Core, 0.75 mm, 50M	18 G 0.75	14.9	355	PPSY18C0.75 50M
Cable, SY, 12 Core, 1.5 mm, 50M	12 G 1.5	15.4	396	PPSY12C1.50 50M
Cable, SY, 12 Core, 0.75 mm, Per M	12 G 0.75	12.9	260	PPSY12C0.75
Cable, SY, 12 Core, 1.5 mm, Per M	12 G 1.5	15.4	396	PPSY12C1.50
Cable, SY, 18 Core, 0.75 mm, Per M	18 G 0.75	14.9	355	PPSY18C0.75
Cable, SY, 2 Core, 0.75 mm, 50M	2 × 0.75	9.4	128	PPSY2C0.75 50M
Cable, SY, 2 Core, 1 mm, 50M	2 × 1	9.8	137	PPSY2C1.00 50M
Cable, SY, 2 Core, 1.5 mm, 50M	2 × 1.5	10.6	172	PPSY2C1.50 50M
Cable, SY, 2 Core, 2.5 mm, 50M	2 × 2.5	13	246	PPSY2C2.50 50M
Cable, SY, 2 Core, 0.75 mm, Per M	2 × 0.75	9.4	128	PPSY2C0.75
Cable, SY, 2 Core, 1 mm, Per M	2 × 1	9.8	137	PPSY2C1.00
Cable, SY, 2 Core, 1.5 mm, Per M	2 × 1.5	10.6	172	PPSY2C1.50
Cable, SY, 2 Core, 2.5 mm, Per M	2 × 2.5	13	246	PPSY2C2.50

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