

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	3000 V AC
Temp. range	for flexible use -5 up to +70°C max. conductor temperature fixed installation -40 up to +80°C max. conductor temperature
Min. bending radius	fixed installation 12.5 x 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).

Manufacturers Part Number	No. Cores x Cross Sectional Area (mm ²)	Outer Diameter (mm)	Weight Kg/Km
38101349	SY 3G0,75	8.5	108
38101350	SY 4G0,75	9.2	126
38101351	SY 5G0,75	9.7	146
38101352	SY 7G0,75	10.3	172
38101705	SY 12G0,75	12.9	260
38101706	SY 18G0,75	14.9	355
38101353	SY 3G1	8.8	119
38101354	SY 4G1	9.5	141
38101355	SY 5G1	10.1	164
38101356	SY 7G1	11.0	200
38101707	SY 12G1	13.9	309
38101708	SY 18G1	15.9	415
38101357	SY 3G1,5	9.7	151
38101358	SY 4G1,5	10.2	173
38101359	SY 5G1,5	11.1	202
38101360	SY 7G1,5	11.9	248
38101709	SY 12G1,5	15.4	396
38101361	SY 3G2,5	11.1	206
38101362	SY 4G2,5	12.1	249
38101363	SY 5G2,5	13.2	295
38101364	SY 7G2,5	14.3	373
38101365	SY 4G4	14.0	348
38101366	SY 5G4	15.1	410
38101367	SY 4G6	16.2	482
38101368	SY 5G6	17.7	579