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Datasheet

Stock No: 827-4230

RS Pro SY Control Screened Cable, 25 Core



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)

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Specifications:

Number of Cores	25
Cross Sectional Area	0.75 mm²
Outer Diameter	16.3mm
Voltage Rating	300/500 V
Sheath Material	Polyvinyl Chloride PVC
Sheath Colour	Transparent
Cable Shape	Multicore
Operating Temperature Range	-5°C → +70°C flexible and -40°C → +80°C fixed
Conductor Resistance	20 GΩ/cm
American Wire Gauge	18 AWG
Minimum Bend Radius	Fixed Installation 12.5 x Cable Diameter
Conductor Material	Bare Copper
Screened/Unscreened	Screened
Standards Met	This cable confirms to ECD 73/23/EEC (low voltage directive).
Insulation Material	PVC
Screen Type	Braid
Length	50mm