

Part No: EESYY

Description: The ENGELEC's SY PVC control cable is a steel wire braiding armored flex cable used as interconnect cable for measuring, controlling or regulation in control equipment for assembly and production lines, conveyors and for computer units. Suitable for flexible use in conditions of light mechanical stress. Can be used outdoors when protected against direct sunlight, and in dry or moist conditions indoors. The braided screen offers mechanical protection and a level of electro-magnetic shielding. The galvanized coating helps protect against corrosion.



Construction

Conductor	Class 5, Annealed plain copper, sizes: 1.5mm ² , 2.5mm ² , 4mm ² & 6mm ² to BS 6360
Insulation	90°C PVC (polyvinyl chloride), type TI1 to BS 6746
Binder	Transparant PET tape
Colour code	According to EN50525, ● Blue ● Brown ● Black ● Grey ● Green/Yellow
Screen	Galvanized steel wire braiding armored, shielding coverage > 50%
Bedding Sheath	90°C PVC (polyvinyl chloride), type TM 1 to BS 6746,
Outer sheath	90°C PVC Sheath, type TM 1 or type 6 to BS 6746
Sheath colour	Transparant, gray or black

Mechanical and Electrical Properties

* **Operating temperature** : -20°C up to + 100°C (fixed installation) ; -10°C to +90°C (flexed operation).

* **Minimum bending radius** : 12 x overall diameter.

Conductor Area Size	mm ²	1.5	2.5	4.0	6.0
Conductor resistance max	ohm/km	13.3	7.98	4.95	3.3
Insulation resistance min	Mohm/km	25	25	25	25
Current carrying capacity at 30°C in air in conductor	A	24	32	42	54
	A	15	18	26	34
Braided shielding coverage	%	>50	>50	>50	>50
Voltage drop	mV/A/m	25	15	9.5	6.4
AC voltage withstand test	V	2500	2500	2500	2500
Rated voltage max	V	450/750	450/750	450/750	450/750

Standards

RoHS Compliance :	Yes	UV Resistance :	Good, ISO 4892-3†
CE Compliant :	Yes (2014/35/EU)	Weather Resistance :	Good, ISO 4892-3†
Manufactured in accordance to :	VDE0207, BS 6746, IEC 60331-1	CPR Classification	F _{ca} (EN50575:2014+A1:2016)

Dimension Parameter

Engelec Cable Part Number	No. of Cores	Nominal Conductor CSA	Nominal Thickness of Insulation	Nominal Thickness of bedding	Nominal Dia. over Bedding	Thickness of braid shielding	Nominal Thickness of Sheath	Nominal Dia. of Cable	Approx. Weight
		mm ²	mm	mm	mm	mm	mm	mm	kg/km
EESYY3C15	3	1.5	0.6	0.5	6.6	0.2	0.7	8.4	138
EESYY3C25	3	2.5	0.7	0.5	7.9	0.2	0.8	9.9	188
EESYY3C40	3	4.0	0.8	0.6	9.6	0.2	0.9	11.8	256
EESYY3C60	3	6.0	0.8	0.6	10.7	0.2	1.0	13.1	352
EESYY4C15	4	1.5	0.6	0.5	7.3	0.2	0.7	9.1	161
EESYY4C25	4	2.5	0.7	0.5	8.8	0.2	0.8	10.8	223
EESYY4C40	4	4.0	0.8	0.6	10.6	0.2	1.0	13.0	310
EESYY4C60	4	6.0	0.8	0.6	11.6	0.2	1.1	14.2	430
EESYY5C15	5	1.5	0.6	0.5	8.0	0.2	0.8	10.0	189
EESYY5C25	5	2.5	0.7	0.5	9.7	0.2	0.9	11.9	264
EESYY5C40	5	4.0	0.8	0.6	11.5	0.2	1.0	13.9	350
EESYY5C60	5	6.0	0.8	0.6	12.8	0.2	1.1	15.4	523
EESYY7C15	7	1.5	0.6	0.5	8.8	0.2	0.8	10.8	202
EESYY7C25	7	2.5	0.7	0.5	10.6	0.2	1.0	13.0	300
EESYY7C40	7	4.0	0.8	0.6	12.6	0.2	1.1	15.2	440
EESYY7C60	7	6.0	0.8	0.6	14.1	0.2	1.2	16.9	580
EESYY12C15	12	1.5	0.6	0.6	11.2	0.2	1.1	13.8	330
EESYY12C25	12	2.5	0.7	0.7	14.7	0.2	1.2	17.5	470
EESYY12C40	12	4.0	0.8	0.8	17.4	0.2	1.4	20.6	680
EESYY12C60	12	6.0	0.8	0.8	19.4	0.2	1.4	22.6	890

Conductor

Conductor Area Size	mm ²	1.5	2.5	4.0	6.0
Conductor Class 5	No. x mm	30/0.25	50/0.25	56/0.30	84/0.30

* Information and images on this datasheet are intended for guidance only and products may vary due to technical improvements and commercial factor

Find the product by : www.engeleccable.com | email: info@engelec.cn | tel: +86 577 61672337 | quick quote: +86 13505876536

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