

Part No: EECYY

Description: The ENGELEC's CY PVC control cable is a tinned copper wire braiding screened 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 tinned copper wire braided shielding protect the control signal transmission from the electromagnetic interference.



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 T11 to BS 6746
Binder	Transparent PET tape
Colour code	According to EN50525, ● Blue ● Brown ● Black ● Grey ● Green/Yellow
Screen	Tinned Copper Wire Braiding, shielding coverage > 80%
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	Transparent or gray

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	%	>80	>80	>80	>80
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
EECYY3C15	3	1.5	0.6	0.5	6.6	0.12	0.7	8.2	90
EECYY3C25	3	2.5	0.7	0.5	7.9	0.12	0.8	9.7	136
EECYY3C40	3	4.0	0.8	0.6	9.6	0.12	0.9	11.6	210
EECYY3C60	3	6.0	0.8	0.6	10.7	0.12	1.0	12.9	285
EECYY4C15	4	1.5	0.6	0.5	7.3	0.12	0.7	8.9	114
EECYY4C25	4	2.5	0.7	0.5	8.8	0.12	0.8	10.6	173
EECYY4C40	4	4.0	0.8	0.6	10.6	0.12	1.0	12.8	260
EECYY4C60	4	6.0	0.8	0.6	11.6	0.12	1.1	14.0	358
EECYY5C15	5	1.5	0.6	0.5	8.0	0.12	0.8	9.8	142
EECYY5C25	5	2.5	0.7	0.5	9.7	0.12	0.9	11.7	216
EECYY5C40	5	4.0	0.8	0.6	11.5	0.12	1.0	13.7	325
EECYY5C60	5	6.0	0.8	0.6	12.8	0.12	1.1	15.2	449
EECYY7C15	7	1.5	0.6	0.5	8.8	0.12	0.8	10.6	180
EECYY7C25	7	2.5	0.7	0.5	10.6	0.12	1.0	12.8	283
EECYY7C40	7	4.0	0.8	0.6	12.6	0.12	1.1	15.0	420
EECYY7C60	7	6.0	0.8	0.6	14.1	0.12	1.2	16.7	550
EECYY12C15	12	1.5	0.6	0.6	11.2	0.12	1.1	13.6	307
EECYY12C25	12	2.5	0.7	0.7	14.7	0.12	1.2	17.3	450
EECYY12C40	12	4.0	0.8	0.8	17.4	0.12	1.4	20.4	650
EECYY12C60	12	6.0	0.8	0.8	19.4	0.12	1.4	22.4	860

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