

**Part No:** EECYX

**Description:** The ENGELEC's CY LSZH control cables are 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. All plastic materials are low smoke and



### Construction

<b>Conductor</b>	Class 5, Annealed plain copper, sizes: 1.5mm <sup>2</sup> , 2.5mm <sup>2</sup> , 4mm <sup>2</sup> & 6mm <sup>2</sup> to BS 6360
<b>Insulation</b>	Low smoke halogen free compound, EN 50525
<b>Binder</b>	Transparant PET tape
<b>Colour code</b>	According to EN60456, ● Blue ● Brown ● Black ● Grey ● Green/Yellow
<b>Screen</b>	Tinned copper wire braiding, shielding coverage > 80%
<b>Bedding Sheath</b>	Low smoke halogen free compound, EN 50525
<b>Outer sheath</b>	Low smoke halogen free compound, EN 50525
<b>Sheath colour</b>	Gray or Transparent.

### 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 <sup>2</sup>	1.5	2.5	4.0	6.0
<b>Conductor resistance max</b>	ohm/km	13.3	7.98	4.95	3.3
<b>Insulation resistance min</b>	Mohm/km	25	25	25	25
<b>Current carrying capacity at 30°C in air in conductor</b>	A	24	32	42	54
	A	15	18	26	34
<b>Braided shielding coverage</b>	%	>80	>80	>80	>80
<b>Voltage drop</b>	mV/A/m	25	15	9.5	6.4
<b>AC voltage withstand test</b>	V	2500	2500	2500	2500
<b>Rated voltage max</b>	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, EN50525, IEC 60331-1	CPR Classification	F <sub>ca</sub> (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 <sup>2</sup>	mm	mm	mm	mm	mm	mm	kg/km
EECYX3C15	3	1.5	0.6	0.5	6.6	0.12	0.7	8.2	90
EECYX3C25	3	2.5	0.7	0.5	7.9	0.12	0.8	9.7	136
EECYX3C40	3	4.0	0.8	0.6	9.6	0.12	0.9	11.6	210
EECYX3C60	3	6.0	0.8	0.6	10.7	0.12	1.0	12.9	285
EECYX4C15	4	1.5	0.6	0.5	7.3	0.12	0.7	8.9	114
EECYX4C25	4	2.5	0.7	0.5	8.8	0.12	0.8	10.6	173
EECYX4C40	4	4.0	0.8	0.6	10.6	0.12	1.0	12.8	260
EECYX4C60	4	6.0	0.8	0.6	11.6	0.12	1.1	14.0	358
EECYX5C15	5	1.5	0.6	0.5	8.0	0.12	0.8	9.8	142
EECYX5C25	5	2.5	0.7	0.5	9.7	0.12	0.9	11.7	216
EECYX5C40	5	4.0	0.8	0.6	11.5	0.12	1.0	13.7	325
EECYX5C60	5	6.0	0.8	0.6	12.8	0.12	1.1	15.2	449
EECYX7C15	7	1.5	0.6	0.5	8.8	0.12	0.8	10.6	180
EECYX7C25	7	2.5	0.7	0.5	10.6	0.12	1.0	12.8	283
EECYX7C40	7	4.0	0.8	0.6	12.6	0.12	1.1	15.0	420
EECYX7C60	7	6.0	0.8	0.6	14.1	0.12	1.2	16.7	550
EECYX12C15	12	1.5	0.6	0.6	11.2	0.12	1.1	13.6	307
EECYX12C25	12	2.5	0.7	0.7	14.7	0.12	1.2	17.3	450
EECYX12C40	12	4.0	0.8	0.8	17.4	0.12	1.4	20.4	650
EECYX12C60	12	6.0	0.8	0.8	19.4	0.12	1.4	22.4	860

**Conductor**

<b>Conductor Area Size</b>	mm <sup>2</sup>	1.5	2.5	4.0	6.0
<b>Conductor Class 5</b>	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