

Part No: C5EUUA
Description: The ENGELEC steel wire armoured (SWA) Cat 5E UTP cable tested to 350MHz, is the ideal choice for high speed data networks across buildings. Suitable for direct burial and outdoor suspension installation.



Construction

Conductor	Solid Bare Copper
AWG	24
Insulation Material	High Density Polyethylene (HDPE)
Number of Pairs	4
Pair Identification	TIA 568
1 st Sheath Material	Polyvinyl Chloride (PVC), Black Or Low Density Polyethylene (LDPE) Or LSHF
Armour	Helical Galvanized Steel Wire
2 nd Sheath Material	Low Density Polyethylene (LDPE) Or LSHF. Black

Electrical Characteristics

Max. Conductor Resistance @ 20°C	≤ 9.5 Ω/100m
Max. Resistance Unbalanced	≤ 5 %
Nominal Impedance (1-100MHz)	100 ± 15 Ω
Insulation Resistance	5000MΩ/km
Mutual Capacitance	≤ 5.6nF/100m
Capacitance Unbalanced to Earth	≤ 300 pF/ 100m
NVP	68 %
Max. Delay Skew	≤ 45 nS/ 100m
Voltage Rating EN 50525-1	150V
Test Voltage	Between conductors 0.7kV(DC)/1min; between conductor & shielding 1.7kV(DC)/2sec

Physical Characteristics

Overall Diameter	14.0 ± 0.5mm		
Bend Radius	Fixed 6 x OD,	Flexing	10 x OD
Temperature Rating	Fixed -20°C to 70°C,	Flexing	-10°C to 60°C
Weight	239 kg/km		

Transmission Performance

Frequency	1	4	10	16	20	31.25	62.5	100	155	200	300	350	MHz
Attenuation	2.1	3.9	6.2	7.9	8.9	11.2	16.2	21.0	26.6	30.7	38.7	41.4	dB
Return Loss	19.0	19.0	19.0	19.0	19.0	17.1	14.1	12.0	10.1	9.0	7.2	6.6	dB
NEXT	60.0	54.8	48.5	45.2	43.7	40.5	35.7	32.3	29.2	27.3	24.4	23.2	dB
PS NEXT	57.0	51.8	45.5	42.2	40.7	37.5	32.7	29.3	27.0	25.2	22.3	21.2	dB
ACRF	58.6	46.6	38.6	34.5	32.6	28.7	22.7	18.6	17.5	15.3	11.8	10.5	dB
PSACRF	55.6	43.6	35.6	31.5	29.6	25.7	19.7	15.6	11.8	9.6	6.1	4.7	dB

Standards

RoHS2 Compliance	Yes	UV Resistance	Good, ISO 4892-3†
CE Compliant	LVD (2014/35/EU)	Weather Resistance	Good, ISO 4892-3†
Manufactured in accordance to	TIA/EIA 568-C.2, ISO/IEC 11801	CPR Classification	F _{CA} (EN50575:2014+A1:2016)

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