

Part No: C5EFUA
Description: The ENGELEC steel wire armoured (SWA) Cat 5E FTP 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
Overall Screen	Aluminium/Polyester
Drain Wire	24(1)AWG, Tinned Copper
1 st Sheath Material	Polyvinyl Chloride (PVC), Grey Or Low Density Polyethylene (LDPE), Black
Armour	Helical Galvanised Steel Wire
2 nd Sheath Material	Low Density Polyethylene (LDPE), 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
Max. Voltage Rating	150V
Test Voltage	Between conductors 0.7kV(DC)/1min; between conductor & shielding 1.7kV(DC)/2sec

Physical Characteristics

Overall Diameter	10.5 ± 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	220 kg/km	

Transmission Performance

Frequency	1	4	10	16	20	31.25	62.5	100	155	200	300	350	MHz
Attenuation	2.1	3.90	6.2	7.90	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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ENGELEC CABLES

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