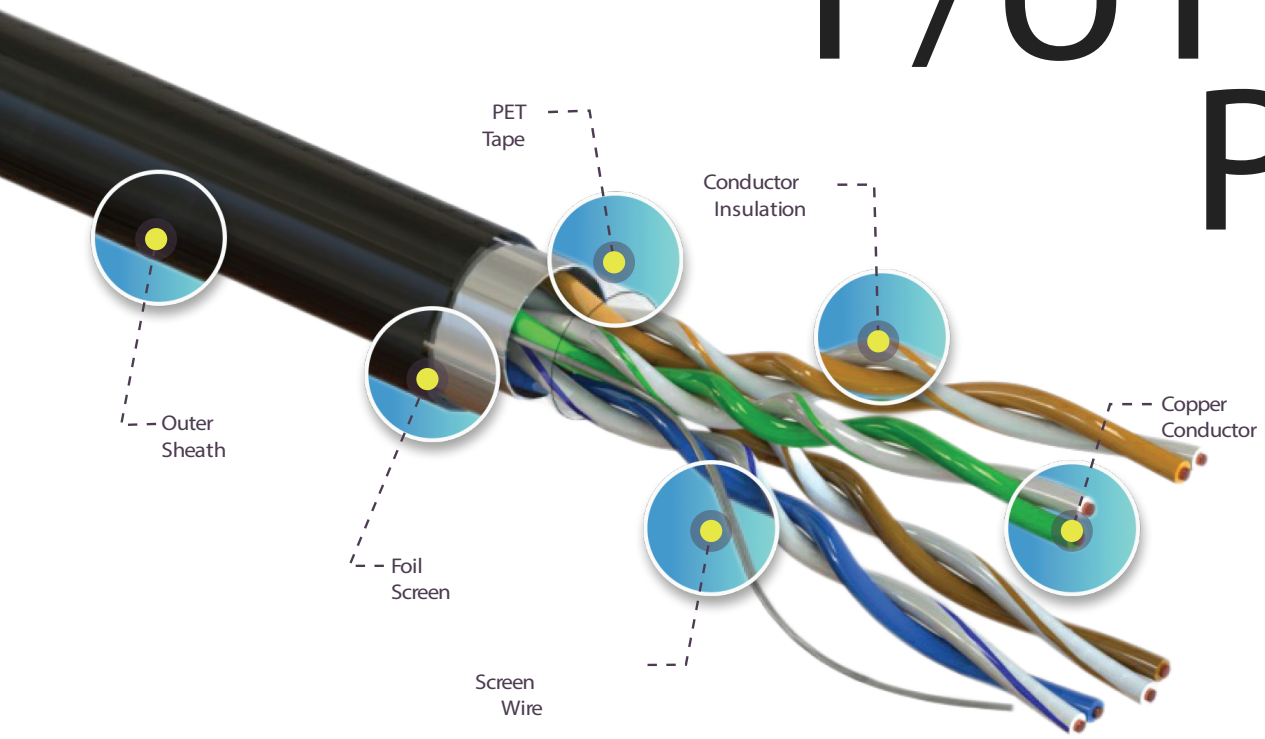
CAT 5E F/UTP PE

ECG5EFTPD



Application

- This data cable range is designed for analogue and digital signal transmission in audio, video and data applications in data communication systems supporting 100 MHz, 1.0 Gbit/s 1 Gigabit Ethernet.
- This cable is suitable for outdoor installations, and for laying close to power lines due to its aluminum-pet foil shielding.

Standards

- ISO/IEC 11801 2nd ed., IEC 61156-5
- EN 50288-2-1
- ANSI EIA/TIA 568-C.2
- EN 50575:2014+A1:2016

Specifications:

MECHANICAL

Conductors	2x4 AWG24 solid copper wire
Sheath material	PE
Sheath Color	RAL 9011, Black
CPR Class	FCA
Outer diameter	aprox 5.9 mm
Shielding	Aluminium-pet tape
Operating bending radius	4 x D
Installation bending radius	8 x D
Tensile strenght	≤ 85N
Crush ressistance	≤ 1000 N/10 cm
Impact strenght	Min 10 impacts

Specifications:

ELECTRICAL

Conductor resistance	≤ 95 Ω/km
Resistance imbalance	≤ 2%
Insulation resistance	≥5000 M Ω x m
Capacitance nom.	50 pF/m
Capacity imbalance	≤ 1600 pF/km
Velocity of propagation	67-69%
Propagation delay	<537 ns/100 m
Signal delay	≤ 45 ns/100 m
Test voltage	1000 V
Operating voltage	≤ 72 V
TCL min. "Level 2"	Level 2
Coupling attenuation	Type II Transfer impedance "Class 2"

ENVIROMENTAL

Operating temperature	-25°C ...+60°C
Installation temperature	0°C ...+50°C

Technical Data:

FREQUENCY, [MHZ]	FREQUENCY, [MHZ] max.	NEXT [DB] min.	PS-NEXT [DB] min.	ACR [DB/100 M] min.	PS-ACR [DB/100 M] min.	ACR-F [DB/100 M] min.	PS-ACR-F [DB/100 M] min.	RL [DB] min.
1	2.1	65.3	63.2	63.2	60.2	64	61	20
4	4.1	56.3	52.2	52.2	49.2	52	49	23
10	6.5	50.3	43.8	43.8	40.8	44	41	25
16	8.3	47.2	39	39	36	39.9	36.9	25
20	9.3	45.8	36.5	36.5	33.5	38	35	25
31.25	11.7	42.9	31.1	31.1	28.1	34.1	31.1	23.6
62.50	17	38.4	21.4	21.4	18.4	28.1	25.1	21.5
100	22	35.3	13.3	13.3	10.3	24	21	20.1

Ordering information:

PART NUMBER	CABLE STRUCTURE	DIAMETER, MM	CABLE WEIGH, KG/KM	SHEATH COLOR	PACKAGING, M
ECG5EFTPD-3	Cat.5e F/UTP 4x2x24 AWG PE outdoor	5.9	35	Black	305
ECG5EFTPD-5	Cat.5e F/UTP 4x2x24 AWG PE outdoor	5.9	35	Black	500