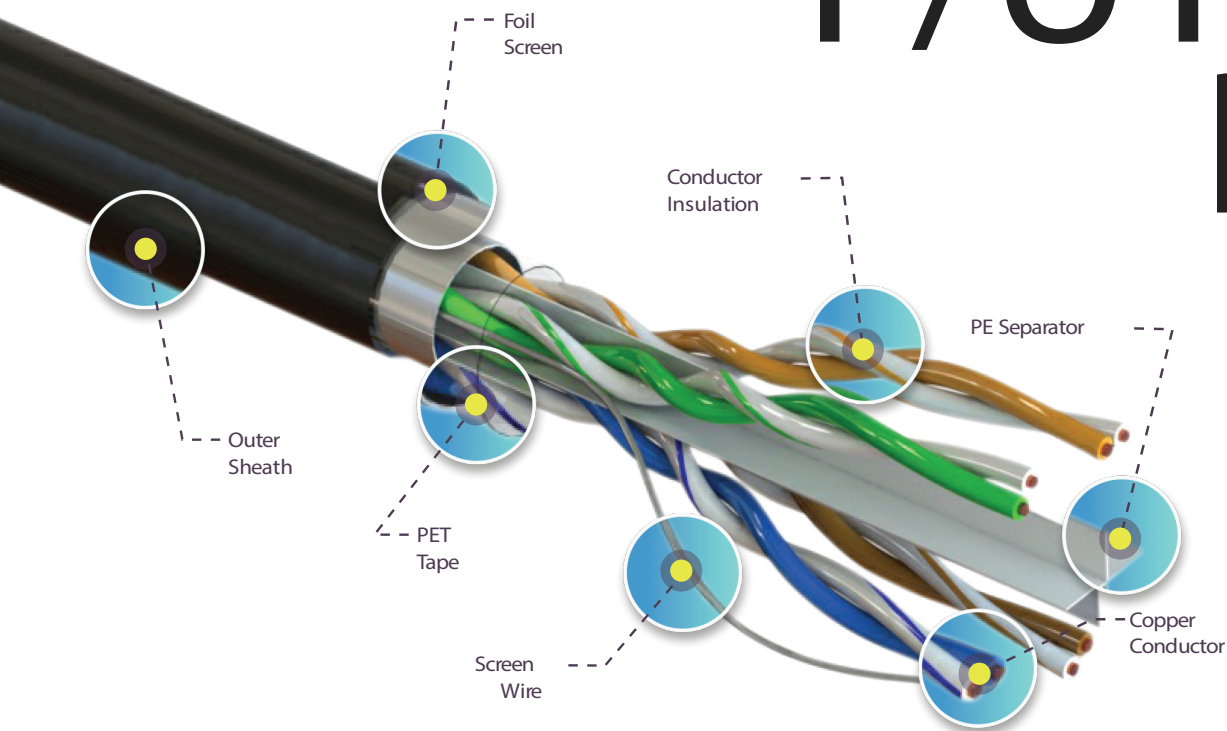


CAT 6 F/UTP PE



Application

- ✓ This data cable range is designed for analogue and digital signal transmission in audio, video and data applications in data communication systems supporting 250 MHz, 1 Gbit/s 1 Gigabit Ethernet.
- ✓ This cable is suitable for installations close to power lines due to its aluminum-pet foil shielding, and outdoor applications due to its PE sheath which also has a degree of UV protection.

Standards

- ✓ ISO/IEC 11801 2nd ed., IEC 61156-5
- ✓ EN 50288-6-1
- ✓ ANSI EIA/TIA 568-C.2
- ✓ EN 50575:2014+A1:2016

Specifications:

MECHANICAL

Conductors	2x4 AWG23 solid coper wire
Sheath material, Color	PE
Sheath color	RAL 9011, Black
CPR Class	FCA
Outer diameter	aprox 7.0 mm
Shielding	Aluminium-pet tape
Operating bending radius	4 x D
Installation bending radius	8 x D
Tensile strenght	≤ 85N
Crush resistance	≤ 1000 N/10 cm
Impact strenght	Min 10 impacts

Specifications:

ELECTRICAL

Conductor resistance	≤ 85 Ω/km
Resistance imbalance	≤ 2%
Insulation resistance	≥ 5000 M Ω x m
Capacitance nom.	56 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

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	75.3	72.3	73.2	70.2	68	65	20
4	3.8	66.3	63.3	62.4	59.4	56	53	23
10	6	60.3	57.3	54.3	51.3	48	45	25
16	7.6	57.2	54.2	49.6	46.6	43.9	40.9	25
31.25	10.7	52.9	49.9	42.1	39.1	38.1	35.1	23.6
62.50	15.5	48.4	45.4	32.9	29.9	32.1	29.1	21.5
100	19.9	45.3	42.3	25.4	22.4	28	25	20.1
250	33	39.3	36.3	6.3	3.3	20	17	17.3

Ordering information:

PART NUMBER	CABLE STRUCTURE	DIAMETER, MM	CABLE WEIGH, KG/KM	SHEATH COLOR	PACKAGING, M
ECG6FTP D-3	Cat.6 F/UTP 4x2x23 AWG PE outdoor	7.0	46	Black	305
ECG6FTP D-5	Cat.6 F/UTP 4x2x23 AWG PE outdoor	7.0	46	Black	500