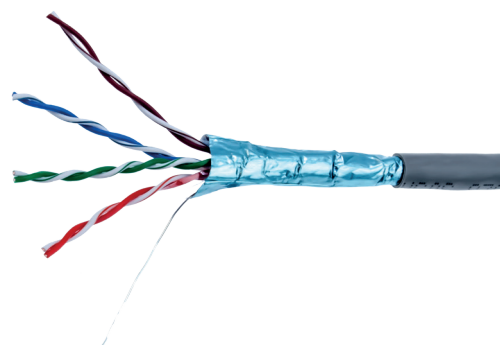
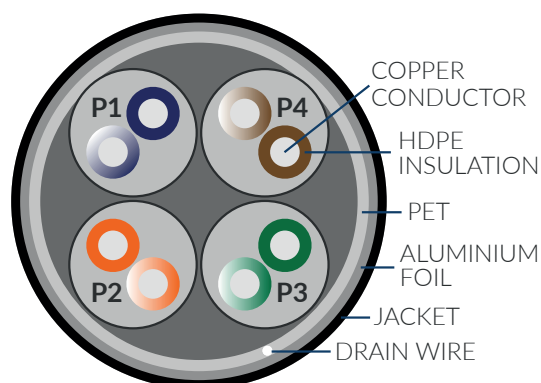


# EM02.003 Specification Sheet

## CAT5E FTP 24 AWG Cable

	STRUCTURE AWG	AWG	24# (1/24)
CONDUCTORS	Material	24	Solid Bare Copper
INSULATION	Material	----	HDPE
	Diameter	mm	Ø 0.97+/-0.05
	Average Thickness	mm	0.25+/-0.05
SHIELDING 1	Type	----	
ASSEMBLY	Direction	----	S
	No. of Insulations	Pair	4
SHIELDING 2	Material	----	Al-Foil Screened
DRAIN WIRE	Shield	----	0.40±0.008mm TC
JACKET	Material	----	PVC
	Diameter	mm	Ø 5.3+/-0.3
	Average Thickness	mm	0.6+/-0.1



### AVAILABLE IN:

GREY EM02.003

FREQUENCY	RL (MIN)	IL (MAX)	DOP (MAX)	DELAY SKEW (MAX)	NEXT (MIN)	PSNEXT (MIN)	ACR-F (MIN)	PSACR-F (MIN)
(MHZ)	(dB)	(dB/100m)	(ns/100m)	(ns/100m)	(dB)	(dB)	(dB/100m)	(dB/100m)
1	20.0	2.0	570	45	65.3	62.3	63.8	60.8
4	23.0	4.1	552	45	56.3	53.3	51.8	48.8
10	25.0	6.5	545	45	50.3	47.3	43.8	40.8
16	25.0	8.2	543	45	47.2	44.2	39.7	36.7
20	25.0	9.3	542	45	45.8	42.8	37.8	34.8
31.25	23.6	11.6	540	45	42.9	39.9	33.9	30.9
62.5	21.5	17.0	538	45	38.4	35.4	27.9	24.9
100	20.1	22.0	537	45	35.3	32.3	32.3	20.8

### Application

- Exceeds requirements of ANSI/TIA568-C.2 and IEC/61156-5 Category 5E component standards
- Exceeds ANSI/TIA568-C.2 and ISO 11801 2nd edition class D CAT5E channel standards
- Meets requirements of IEEE 802.3af and IEEE 802.3 at for POE applications
- Foil shield reduces ingress of EMI interference to ensure cable performance at high frequency levels
- Descending length cable markings enable easy identification of remaining cable which reduces installation time and cable scrap

### Electrical Characteristics:

- Impedance :1-100MHz 100±15 (ohms)
- Rated temp: 75°C
- DC Resistance unbalance (%): max 2.5
- DC Resistance 20°C: ≤ 110 (Ohms/Km)
- Pair to ground Capacitance Unbalance 330 (pF/100m)
- Installation resistance >5000MΩ\*Km
- Dielectric strength DC 2500V 2S
- CPR Rating: ECa



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