

Category 5e Quad Low-Smoke, Zero-Halogen Shielded Cable

2 Pair, 22 AWG, ANSI/TIA 568-C.2 Patch



TRANSIT, 2 PAIR/22 AWG, SHIELDED FOIL TWISTED PAIR (SF/UTP) CAT 5e,
LOW-SMOKE, ZERO-HALOGEN

CATALOG NUMBER	# OF PAIRS	CONDUCTOR SIZE		NOM. COND. DIAMETER		NOM. INS. O.D.		NOM. JACKET THICKNESS		NOM. CABLE DIAMETER		NET CABLE WEIGHT	
		AWG	STRAND.	INCHES	mm	INCHES	mm	INCHES	mm	INCHES	mm	LBS/1000'	kg/km
443240	2	22	7/30	0.030	0.76	0.053	1.35	0.025	0.64	0.275	7.0	42.3	62.9

ELECTRICAL CHARACTERISTICS

FREQUENCY (MHz)	INSERTION LOSS (dB/100 m)	NEXT (dB)	ACRF (dB)	RL (dB)
	max.	min.	min.	min.
1	2.4	65.3	63.8	20.0
4	4.9	56.3	51.8	23.0
10	7.8	50.3	43.8	25.0
16	9.9	47.2	39.7	25.0
20	11.1	45.8	37.8	25.0
25	12.5	44.3	35.8	24.2
31.25	14.1	42.9	33.9	23.3
62.5	20.4	38.4	27.9	20.7
100	26.4	35.3	23.8	19.0
155	33.1	32.7	20.3	17.5
200	38.9	30.8	17.8	16.4

DC Resistance:	9.5 Ω /100 m Max.
DCR Unbalanced:	4% Max.
Mutual Capacitance:	5.6 nF/100 m Max.
Capacitance Unbalanced:	160 pF/100 m Max.
Characteristic Impedance:	100 Ω +/- 15 Ω
Prop Delay (Skew):	45 ns/100 m Max.
Velocity of Propagation:	72% Nom.
Temperature:	Operation: -40°C to +75°C Installation: 0°C to +60°C
Bend Radius:	4.2" Min.

Product Construction:

Conductor:

- 2 pair, 22 AWG 7/30 tinned copper

Insulation:

- Polyolefin

Pairs:

- Two conductors twisted together (each pair twisted with a different lay length)
- Color code:
P1: Orange, Blue
P2: White, Yellow

Binding:

- Low-Smoke, Zero-Halogen (LSZH) flame-retardant tape

Inner Shield:

- Aluminum/polyester tape, 100% coverage

Outer Shield:

- Tinned copper braid, 60% coverage

Jacket:

- Low-Smoke, Zero-Halogen irradiated Cross-linked Polyolefin (LSZH XLPO), Gray

Print (Including but not limited to):

- GENERAL CABLE®—443240--2PR/22 AWG SF/UTP CAT 5E PATCH 75°C LSZH (UL) CMG-LS E105765-W – ROHS AND NFPA 130 COMPLIANT YYMMDD XXXXFT

Applications:

- Category 5e Quad SF/UTP construction is suitable for use in on-vehicle transit applications with flexible stranding, overall shield and Low-Smoke, Zero-Halogen (LSZH) cross-linked jacket

Features:

- Meets Category 5e electricals (tested to 100 MHz)
- Overall metal braid and AL/Mylar tape provide protection from EMI noise
- Low-Smoke, Zero-Halogen (LSZH) jacket is environmentally friendly
- Low-Smoke, Zero-Halogen (LSZH) jacket reduces the amount of toxic and corrosive gases emitted during combustion, providing a safer environment for personnel and equipment during the hazards of fire

Compliances:

Industry:

- (UL) CMG-LS Listed E105765
- (UL) verified ANSI/TIA 568-C.2 Patch
- ISO/IEC 11801 Ed. 2.2
- Oil-Resistant per EN 50306-4

Flame Test:

- NFPA 130
- UL 1685 FT4 W/IEEE 1202 Limited Smoke
- IEC 60332-3-24
- ASTM E662 Smoke Emission
- BSS 7239 Combustion Toxicity
- IEC 61156-1

Other:

- RoHS and REACH Compliant