Category 6 Low-Smoke, Zero-Halogen Shielded Cable

4 Pair, 24 AWG, ANSI/TIA 568-C.2 Patch

Product Construction:

Conductor:
- 4 pair, 24 AWG 7/32 tinned copper

Insulation:
- Polyolefin

Pairs:
- Two conductors twisted together (each pair twisted with a different lay length)
- Color code:
  - P1: White/Blue, Blue
  - P2: White/Orange, Orange
  - P3: White/Green, Green
  - P4: White/Brown, Brown

Separator:
- Low-Smoke, Zero-Halogen (LSZH) flame-retardant cross-web

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® —443480--4PR/24 AWG SF/UTP CAT 6 PATCH 75˚C LSZH (UL) CMG-LS E105765-W – ROHS AND NFPA 130 COMPLIANT YYMMDD XXXXFT

Applications:
- Category 6 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 6 electricals (tested to 350 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:
- UL 1685 FT4 W/IEEE 1202 Limited Smoke
- IEC 60332-3-24
- ASTM E662 Smoke Emission
- BSS 7239 Combustion Toxicity
- IEC 61156-1

Other:
- NFPA-130 (2017) On-Vehicle
- RoHS and REACH Compliant

TRANSIT, 4 PAIR/24 AWG, SHIELDED FOIL TWISTED PAIR (SF/UTP) CAT 6, 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
443480	4	24	7/32	0.024	0.61	0.040	1.0	0.025	0.64	0.315	8.0	43.3	64.4

ELECTRICAL CHARACTERISTICS

FREQUENCY (MHz)	INSERTION LOSS (dB/100 m)	NEXT (dB)	ACRF (dB)	RL (dB)
	max.	min.	min.	min.
1	2.4	74.3	67.8	20.0
4	4.5	65.3	55.8	23.0
8	6.4	60.8	49.7	24.5
10	7.1	59.3	47.8	25.0
16	9.1	56.2	43.7	25.0
20	10.2	54.8	41.8	25.0
25	11.4	53.3	39.8	24.2
31.25	12.8	51.9	37.9	23.3
62.5	18.5	47.4	31.9	20.7
100	23.8	44.3	27.8	19.0
150	29.7	41.7	24.3	17.5
200	34.8	39.8	21.8	16.4
250	39.4	38.3	19.8	15.6
300	43.7	37.1	18.3	14.9
350	47.7	36.1	16.9	14.3

DC Resistance:	9.38 Ω /100 m Max.
DCR Unbalanced:	5% Max.
Mutual Capacitance:	5.6 nF/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:	4.7" Min.

General Cable

POLYRAD®