

DataMax® Mini-6 Patch 28 AWG



Side by side comparison of 24 AWG and 28 AWG DataMax® Patch cable. DataMax® Mini-6 Patch features a 32% reduction in size as well as a 48% smaller cross sectional area.

Superior DataMax® performance is now available with a 28 AWG reduced diameter profile engineered specifically for patching and top of rack applications in Category 6 systems. Recognized by the TIA as of September 2018 in the 568.2-D standard. The smaller gauge copper conductor will meet Category 6 plug to plug electrical and transmission parameters up to 55 meters. This smaller more flexible design improves cable density and provides less cross sectional area promoting increased air flow to maximize rack ventilation.

DESIGN FEATURES

- 28 AWG Stranded Tinned Copper
- Twisted Pair Construction
- Polyvinylchloride (PVC) Jacket
- Slim Design
 - 68% the size of standard Cat 6
 - 48% smaller cross sectional area

- Increased Flexibility
- Improved Cable Density
- Promotes Maximum Air Flow

APPLICATIONS

- Top of Rack
- Patching Solutions
- High Density Installations
- Temperature Sensitive Spaces

LISTINGS/RATINGS

- NEC (UL) Type CMR
- CEC C(UL) Type CMR

DataMax® Mini-6 Patch At-A-Glance

TIA EXAMPLE

90 Meter Horizontal + 10 Meter Patch = 100 Meter Channel



28 AWG PATCH EXAMPLES

90 Meter Horizontal + 6 Meter Patch = 96 Meter Channel



83 Meter Horizontal + 10 Meter Patch = 93 Meter Channel



Plug to Plug 28AWG DataMax® Mini-6 = 55 Meters

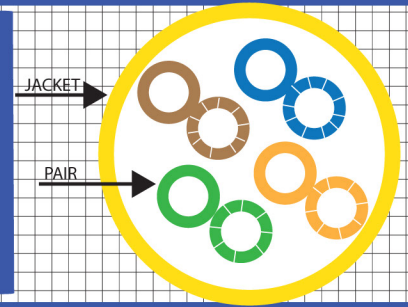


Examples based on 24 AWG Horizontal cable being used in each channel. TIA example utilizes 24 AWG patch cable.

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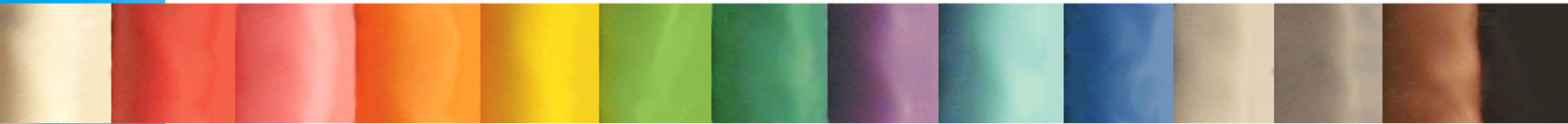
CONSTRUCTION

CONDUCTOR:	28 AWG 7/36 STRANDED TINNED COPPER	NOM. DIA.	.015"
INSULATION:	HIGH DENSITY POLYETHYLENE, .005" NOM. WALL THICKNESS		.0245"
PAIRS:	COLOR CODED SINGLES TWISTED INTO PAIRS		.049"
CABLE:	(4) TWISTED PAIRS TWISTED TOGETHER TO FORM A CABLE CORE		
JACKET:	POLYVINYLCHLORIDE, (COLOR, PER CHART 1), .020" NOM. WALL	.150" NOM	
THICKNESS:	OVERALL CABLE DIAMETER	.155" MAX	



PHYSICAL PROPERTIES

TEMPERATURE RATING, MAX.	75°C
TEMPERATURE RATING, MIN.	-20°C
WT./M', NOM., NET.	10.8 LBS
QUABBIN COLORS AVAILABLE BELOW (COLORS SHOWN ARE REPRESENTATION ONLY)	



ELECTRICAL CHARACTERISTICS

CAPACITANCE, MUTUAL, NOM.	.13.5 PF/FT. AT 1 MHz
DIELECTRIC WITHSTANDING, MIN.	1500V RMS
VOLTAGE RATING, MAX.	300V
D.C. RESISTANCE, NOM.	68.2 Ω/1000'
IMPEDANCE	100 +/- 15 Ω 1-250 MHz
IMPEDANCE, SMOOTHED	100 +/- 10 Ω TYPICAL 5 - 250 MHz
RETURN LOSS	1 - 10 MHz 20 + 5 LOG (F) dB MIN
	10 - 20 MHz 25 dB MIN
	20 - 250 MHz 25- 8.6 LOG(F/20) dB MIN
PS NEXT	1-250 MHz 42.3 - 15 LOG(F/100) dB MIN
NEXT	1-250 MHz 44.3 - 15 LOG(F/100) dB MIN
PSACRF	1-250 MHz 24.8 - 20 LOG(F/100) dB MIN
ACRF	1-250 MHz 27.8 - 20 LOG(F/100) dB MIN
INSERTION LOSS	1-250 MHz 1.8 [1.808 SQRT(F) + 0.017(F) + 0.2/SQRT(F)] dB MAX
DELAY	1-250 MHz 534 + 36/SQRT(F) ns MAX
DELAY SKEW	1-250 MHz <25ns MAX
TCL	1-250 MHz 30-10LOG(F/100)
ELTCTL	1-30 MHz 35-20LOG(F)

QUABBIN P/N	JACKET COLOR
2216	BLACK
2217	BROWN
2218	RED
2219	ORANGE
2220	YELLOW
2221	GREEN
2222	BLUE
2223	VIOLET
2224	GRAY
2225	WHITE
2226	BEIGE
2227	LIGHT BLUE
2228	PINK
2229	AQUA
2230	LIME



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