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Description

24 AWG Bonded-Pairs stranded (7x32) tinned copper conductors, polyolefin insulation, industrial grade sunlight- and oil-resistant TPE jacket. Sequential marking at two foot intervals.

Suitable Applications (Overall):

Suitable Applications	Industrial Ethernet Cable, Harsh Environments, 350MHz Enhanced Category 5e, Gigabit Ethernet, 100BaseTX, 100BaseVG ANYLAN, 155ATM, 622ATM, NTSC/PAL Component or Composite Video, AES/EBU Digital Audio, AES51, RS-422, Outdoor, RJ-45 Compatible, Flexible Applications
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AWG

# Pairs	AWG	Stranding	Conductor Material	Dia. (in.)
2.000	24	7x32	TC - Tinned Copper	0.022

Insulation Material

Ins Material	Wall Thickness (in.)	Dia. (in.)
PO - Polyolefin	0.008	0.041

Outer Shield Material

Outer Shield Material
Unshielded

Outer Jacket Material

Outer Jacket Material	Nom. Wall Thickness (in.)
Industrial Grade TPE	0.035

Overall Cabling:

Overall Nominal Diameter: 0.246 in.

Pair:

Pair Color Code Chart

Number	Color
1	White/Orange Stripe & Orange
2	White/Green Stripe & Green

Mechanical Characteristics (Overall):

Operating Temperature Range	-40°C To +75°C
Storage Temperature Range	-25°C To +75°C
Installation Temperature Range	-25°C To +75°C
Bulk Cable Weight:	23 LBS/1K'
Max. Recommended Pulling Tension:	40 LBS
Min. Bend Radius:	2.5 IN.

Applicable Specifications and Agency Compliance (Overall):

Applicable Standards:

NEC/(UL) Specification	CMR
CEC/C(UL) Specification	CMG
IEC Specification	11801 Category 5e Patch
EU RoHS Compliant (Y/N)	Yes
EU RoHS Compliance Date (mm/dd/yyyy)	02/11/2008
TIA/EIA Specification	568-B.2 Category 5e Patch
Other Specification	NEMA WC-63.1 Category 5, ICEA 661, Category 5e Patch, TIA/EI-568-B.2, Category 5e

Flame Test:

UL Flame Test	CMR
CSA Flame Test	CMG

Suitability:

Suitability - Indoor	Yes
Suitability - Outdoor	Yes
Sunlight Resistance	Yes
Oil Resistance	Yes

Plenum/Non-Plenum:

Plenum (Y/N)	N
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Electrical Characteristics (Overall):

Nom. Mutual Capacitance

Capacitance (pF/ft)
15.000

Nominal Velocity of Propagation

VP (%)
70

Maximum Delay

Delay (ns/100 m)
510.000

Max. Delay Skew

Delay Skew (ns/100 m)
25

Maximum Conductor DC Resistance

DCR @ 20°C (Ohm/100 m)
9.000

Max. Operating Voltage - UL

Voltage
300 V RMS

Maximum DCR Unbalanced

DCR Unbalance @ 20°C (%)
3.000

Maximum Capacitance Unbalance (pF/100 m) 66

Electrical Characteristics-Premise (Overall):

Premise Cable Electrical Table 1

Freq. (MHz)	Max. Attenuation (dB/100 m)	Min. NEXT (dB)	Min. PSNEXT (dB)	Min. ACR (dB)	Min. PSACR (dB)	Min RL (dB)	Min. SRL (dB)
1	2.400	65.300	65.300		62.900	20.000	
4	4.800	56.300	56.300		51.500	23.000	

8	6.800	51.800	51.800		45.000	24.500	
10	7.700	50.300	50.300		42.600	25.000	
16	9.700	47.300	47.300		37.500	25.000	
20	11.000	45.800	45.800		34.800	25.000	
25	12.400	44.300	44.300		31.900	24.300	
31.250	13.900	42.900	42.900		29.000	23.600	
62.500	20.200	38.400	38.400		18.300	21.500	
100	26.000	35.300	35.300		9.200	20.100	
155	33.200	32.500	32.500		0	19.000	
200	38.400	30.800	30.800			19.000	
250	43.700	29.300	29.300			18.000	
300	48.600	28.200	28.200			18.000	
310	49.500	27.900	27.900			18.000	
350	53.200	27.200	27.200			17.000	

Premise Cable Electrical Table 2

Freq. (MHz)	Input (Unfitted) Imp. (Ohms)	Fitted Impedance (Ohm)	Min. ELFEXT (dB)	Min. PSELFEXT (dB)
1	100 ± 12	105 ± 10	63.800	60.800
4	100 ± 12	100 ± 10	51.700	48.700
8	100 ± 12	100 ± 10	45.700	42.700
10	100 ± 12	100 ± 10	43.800	40.800
16	100 ± 12	100 ± 10	39.700	36.700
20	100 ± 12	100 ± 10	37.700	34.700
25	100 ± 15	100 ± 10	35.800	32.800
31.250	100 ± 15	100 ± 10	33.900	30.900
62.500	100 ± 15	100 ± 10	27.800	24.800
100	100 ± 18	100 ± 10	23.800	20.800
155	100 ± 18	100 ± 10	19.900	16.900
200	100 ± 20	100 ± 10	17.700	14.700
250	100 ± 20	100 ± 10	15.800	12.800
300	100 ± 20	100 ± 10	14.200	11.200
310	100 ± 20	100 ± 10	13.900	10.900
350	100 ± 22	100 ± 10	12.900	9.900

Notes (Overall):

Notes US Patents 5, 606, 151; 5, 734, 126; 5, 763, 823.
 Operating temperatures are subject to length de-rating. Cable passes -40C Cold Bend per UL 1581.

PUT UPS AND COLORS:

Item #	Putup	Cable Weight	Jacket Color	Notes	Item Desc
YT1HF11		350/1K'	TBD		2 PR #24 PP TPE

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