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## Description:

24 AWG solid BC conductors, polyolefin insulation, plus 2 power conductors, 16 AWG stranded (19x29) tinned copper conductors, polypropylene insulation, unshielded, overall F-R PVC jacket.

## Usage (Overall)

**Suitable Applications:** UTP-CCTV, CCTV Video/Control, Surveillance, Video Over Twisted Pairs, Closed Circuit Television

## Twisted Pair

### Physical Characteristics

#### Conductor

##### AWG:

# Pairs	AWG	Stranding	Conductor Material	Dia. (mm)
2	24	Solid	BC - Bare Copper	0.523

#### Insulation

##### Insulation Material:

Insulation Material	Dia. (mm)
PO - Polyolefin	0.889

##### Twisted Pair Color Code Chart:

Number	Color
1	Blue and White/Blue
2	Orange and White/Orange

#### Inner Shield

##### Inner Shield Material:

Inner Shield Material
Unshielded

#### Individual Shield

### Electrical Characteristics

##### Nominal Velocity of Propagation:

VP (%)
70.000

##### Maximum Conductor DC Resistance:

DCR @ 20°C (Ohm/100 m)
9.380

##### Maximum DCR Unbalanced:

DCR Unbalance @ 20°C (%)
5.000

##### Premise Cable Electricals:

Freq. (MHz)	Max. Attenuation (dB/100 m)	Min. PSNEXT (dB)	Fitted Imp. (Ohms)
1.0	2.000	62	100 ± 15%
4.0	4.100	53	100 ± 15%
8.0	5.800	48	100 ± 15%
10.0	6.500	47	100 ± 15%
16.0	8.200	44	100 ± 15%
20.0	9.300	42	100 ± 15%

25.0	10.400	41	100 ± 15%
31.25	11.700	39	100 ± 15%
62.5	17.000	35	100 ± 15%
100	22.000	32	100 ± 15%

**Premise Cable Electrical Table 1:**

Freq. (MHz)	Min. PSACR (dB)	Min RL (dB)
1	60	20.000
4	49	23.000
8	43	24.500
10	41	25.000
16	36	25.000
20	34	25.000
25	31	24.300
31.25	28	23.600
62.5	19	21.500
100	11	20.100

**Premise Cable Electrical Table 2:**

Freq. (MHz)	Min. PSELFEXT (dB)
1	61
4	49
8	43
10	41
16	37
20	35
25	33
31.25	31
62.5	24
100	21

## Multi Conductor

### Physical Characteristics

#### Conductor

AWG:

# Conductors	AWG	Stranding	Conductor Material	Dia. (mm)
2	16	19x29	TC - Tinned Copper	1.499

#### Insulation

Insulation Material:

Insulation Material	Wall Thickness (mm)
PP - Polypropylene	0.178

Insulation Color Code Chart:

Number	Color
1	Red
2	Black

#### Individual Shield

### Electrical Characteristics

Maximum Conductor DC Resistance:

DCR @ 20°C (Ohm/100 m)
4.500

## Physical Characteristics (Overall)

### Conductor

#### Outer Shield

Outer Shield Material:

Outer Shield Material
Unshielded

## Outer Jacket

### Outer Jacket Material:

Outer Jacket Material
F-R PVC - Flame Retardant Polyvinyl Chloride

## Overall Cable

Overall Nominal Diameter: 4.826 x 10.363 mm

## Mechanical Characteristics (Overall)

Bulk Cable Weight: 63.993 Kg/Km

Max. Recommended Pulling Tension: 444.820 N

Min. Bend Radius/Minor Axis: 50.800 mm

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

NEC/(UL) Specification: CMR

CEC/C(UL) Specification: CMG

Other Standards: ISO/IEC 11801, Category 5e for data pair

EU Directive 2000/53/EC (ELV): Yes

EU Directive 2002/95/EC (RoHS): Yes

EU RoHS Compliance Date (mm/dd/yyyy): 04/01/2005

EU Directive 2002/96/EC (WEEE): Yes

EU Directive 2003/11/EC (BFR): Yes

CA Prop 65 (CJ for Wire & Cable): Yes

MII Order #39 (China RoHS): Yes

### Flame Test

UL Flame Test: UL1666 Riser

C(UL) Flame Test: FT4

### Plenum/Non-Plenum

Plenum (Y/N): No

Plenum Number: 6284US

## Electrical Characteristics (Overall)

### Max. Operating Voltage - Non-UL:

Voltage
300 V RMS

## Notes (Overall)

Notes: Overall jacket sequentially marked.

## Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
5284US 0091000	305 MT	20.412 KG	WHITE	C	2 PR #24 PP + 2 #16 PVC PVC
5284US 0101000	305 MT	20.412 KG	BLACK	C	2 PR #24 PP + 2 #16 PVC PVC
5284US 0105000	152 MT	10.659 KG	BLACK	C	2 PR #24 PP + 2 #16 PVC PVC

### Notes:

C = CRATE REEL PUT-UP.

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