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1-800-Belden1



### General Description:

20 AWG stranded (7x28) one tinned copper conductor, one bare copper conductor, polyethylene insulation, polyethylene inner jacket, Duofoil® (100% coverage) plus a tinned copper braid shield (85% coverage), PVC outer jacket.

### Physical Characteristics (Overall)

#### Conductor

AWG:

# Pairs	AWG	Stranding	Conductor Material	Dia. (mm)
1	20	7x28	TC - Tinned Copper	0.9398
			BC - Bare Copper	

Total Number of Conductors: 2

#### Insulation

Insulation Material:

Insulation Material	Wall Thickness (mm)
PE - Polyethylene	0.610

#### Inner Jacket

Inner Jacket Material:

Inner Jacket Material	Nom Wall (mm)	Nom. Dia. (mm)
PE - Polyethylene	0.889	5.994

#### Outer Shield

Outer Shield Material:

Layer #	Outer Shield Trade Name	Type	Outer Shield Material	Coverage (%)
1	Duofoil®	Tape	Aluminum Foil-Polyester Tape-Aluminum Foil	100
2		Braid	TC - Tinned Copper	85

#### Outer Jacket

Outer Jacket Material:

Outer Jacket Material	Nom. Wall Thickness (mm)
PVC - Polyvinyl Chloride	0.787

#### Overall Cable

Overall Nominal Diameter: 8.382 mm

#### Pair

Pair Color Code Chart:

Number	Color
1	Natural (bare copper conductor)
2	Natural (tinned copper conductor)

### Mechanical Characteristics (Overall)

Operating Temperature Range: -30°C To +75°C

Bulk Cable Weight: 93.757 Kg/Km

Max. Recommended Pulling Tension: 498.198 N

Min. Bend Radius/Minor Axis: 88.900 mm

## Applicable Specifications and Agency Compliance (Overall)

### Applicable Standards & Environmental Programs

NEC/(UL) Specification:	CL2, CMG
CEC/C(UL) Specification:	CMG
EU CE Mark:	Yes
EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2002/95/EC (RoHS):	Yes
EU RoHS Compliance Date (mm/dd/yyyy):	01/01/2004
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
Customer Part Number Reference Specification:	IBM P/N 7362211

### Flame Test

UL Flame Test:	UL1685 FT4 Loading
CSA Flame Test:	FT4

### Suitability

Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes

### Plenum/Non-Plenum

Plenum (Y/N):	No
Plenum Number:	89207

## Electrical Characteristics (Overall)

### Nom. Characteristic Impedance:

Impedance (Ohm)  
100

### Nom. Inductance:

Inductance (μH/m)  
0.508555

### Nom. Capacitance Conductor to Conductor:

Capacitance (pF/m)  
47.5745

### Nom. Capacitance Cond. to Other Conductor & Shield:

Capacitance (pF/m)  
75.463

### Nominal Velocity of Propagation:

VP (%)  
66

### Nominal Delay:

Delay (ns/m)  
5.05274

### Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/km)  
31.1695

### Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/km)

5.70894

**Nom. Attenuation:**

Freq. (MHz)	Attenuation (dB/100m)
1	0.9843
10	3.9372
50	9.1868
100	13.4521
200	20.9984
400	33.4662

**Max. Operating Voltage - UL:**

Voltage
300 V RMS

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

Voltage
600 V RMS

**Put Ups and Colors:**

Item #	Putup	Ship Weight	Color	Notes	Item Desc
9207 010U500	152 MT	14.969 KG	BLACK		100 OHM TWINAX
9207 010100	30 MT	3.221 KG	BLACK		100 OHM TWINAX
9207 0101000	305 MT	30.844 KG	BLACK	C	100 OHM TWINAX
9207 0101640	500 MT	50.585 KG	BLACK	C	100 OHM TWINAX
9207 0103280	1,000 MT	99.682 KG	BLACK	C	100 OHM TWINAX
9207 010500	152 MT	15.649 KG	BLACK	C	100 OHM TWINAX
9207 0105000	1,524 MT	158.758 KG	BLACK	C	100 OHM TWINAX

**Notes:**

C = CRATE REEL PUT-UP.

**Test Reports****a) UL**

- i) UL Test Reports are available on-line through the UL Client Document Access web portal.
- ii) UL Inspection Reports are also available through the UL Client Document Access web portal.

**b) CSA**

- i) CSA "Descriptive Report and Test Results" documents are available on the CSA Gateway Portal.
- ii) CSA Inspection Reports are maintained on the CSA issued 'flash drive' at each manufacturing location.

\* other test data may be available if requested at time of order.

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