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With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Part Number: 9207

100Ω Twinax, #20-1c TC/1c BC, PO, Duofoil® + 86% TC Braid, CMG

Product Description

100 Ohm Twinax, IBM p/n 7362211, 20 AWG stranded (7x28) one tinned copper conductor, one bare copper conductor, polyethylene insulation, polyethylene inner jacket, Duofoil® (100% coverage) + a tinned copper braid shield (85% coverage), PVC outer jacket.

Technical Specifications

Physical Characteristics (Overall)

Conductor

AWG	Stranding	Material	Construction n x D	Nominal Diameter	No. of Conductors	No. of Pairs
20	7x28	TC - Tinned Copper	Stranded	0.037 in	1	1
20	7x28 AWG	BC - Bare Copper	Stranded		1	
Conductor Count:				2		
Conductor Size:				20 AWG		

Insulation

Material	Nominal Diameter
PE - Polyethylene	0.083 in

Color Chart

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

Inner Jacket Material

Material	Nominal Diameter
PE - Polyethylene	0.236 in

Outer Shield Material

Type	Layer	Material	Material Trade Name	Coverage [%]
Tape	1	Aluminum/Polyester/Aluminum	Duofoil®	100 %
Braid	2	TC - Tinned Copper		85 %

Outer Jacket Material

Material	Nominal Diameter
PVC - Polyvinyl Chloride	0.33 in

Electrical Characteristics

Conductor DCR

Nominal Conductor DCR	Nominal Outer Shield DCR	Outer Conductor DCR
9.5 Ohm/1000ft	1.74 Ohm/1000ft	1.74 Ohm/1000ft

Capacitance

Nom. Capacitance Conductor to Conductor	Nom. Capacitance Conductor to Other Conductor to Shield
14.5 pF/ft	23 pF/ft
Shielding: Foil + Braid(s)	

Inductance

Nominal Inductance

0.155 µH/ft

Impedance**Nominal Characteristic Impedance**

100 Ohm

High Frequency (Nominal/Typical)

Frequency [MHz]	Nom. Insertion Loss
1 MHz	0.3 dB/100m
10 MHz	1.2 dB/100m
50 MHz	2.8 dB/100m
100 MHz	4.1 dB/100m
200 MHz	6.4 dB/100m
400 MHz	10.2 dB/100m

Delay

Max. Delay Skew	Nominal Delay	Nominal Velocity of Propagation (VP) [%]
66 ns/100m	1.54 ns/ft	66 %

Voltage**UL Voltage Rating**

300 V RMS

Temperature Range

Operating Temp Range:	-30°C To +75°C
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Mechanical Characteristics

UV Resistance:	Yes - Black only
Bulk Cable Weight:	63 lbs/1000ft
Max Recommended Pulling Tension:	112 lbs
Min Bend Radius/Minor Axis:	3.5 in

Standards

Customer Part Number Reference Spec:	IBM P/N 7362211
NEC/(UL) Specification:	CL2, CMG
CEC/C(UL) Specification:	CMG
CPR Euroclass:	Eca

Applicable Environmental and Other Programs

EU Directive 2000/53/EC (ELV):	Yes
EU Directive 2003/96/EC (BFR):	Yes
EU Directive 2011/65/EU (ROHS II):	Yes
EU Directive 2012/19/EU (WEEE):	Yes
EU Directive 2015/863/EU:	Yes
EU Directive Compliance:	EU Directive 2003/11/EC (BFR)
EU CE Mark:	Yes
EU RoHS Compliance Date (yyyy-mm-dd):	2004-01-01
CA Prop 65 (CJ for Wire & Cable):	Yes
MII Order #39 (China RoHS):	Yes

Suitability

Suitability - Aerial:	Yes - Black only, when supported by messenger wire
Suitability - Burial:	No
Suitability - Hazardous Locations:	No
Suitability - Indoor:	Yes
Suitability - Outdoor:	Yes - Black only

Flammability, LSOH, Toxicity Testing

UL Flammability:	UL1685 FT4 Loading
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CSA Flammability:	FT4
UL voltage rating:	300 V RMS

Plenum/Non-Plenum

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

Part Number

Variants

Item #	Color	Footnote
9207 010100	Black	
9207 0101000	Black	C
9207 0101640	Black	C
9207 0103280	Black	C
9207 010500	Black	C
9207 0105000	Black	C
9207 010U500	Black	

Footnote:	C - CRATE REEL PUT-UP.
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