



Product: [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 Pairs
20	7x28	TC - Tinned Copper	Stranded	0.037 in	1
20	7x28	BC - Bare Copper	Stranded		

Conductor Count:	2
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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	Alum / Poly / Alum	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

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
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, LS0H, Toxicity Testing

UL Flammability:	UL1685 FT4 Loading
CSA Flammability:	FT4

ISO/IEC Flammability:	IEC 60332-1-2
UL voltage rating:	300 V RMS

Plenum/Non-Plenum

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

Part Number

Variants

Item #	Color	Putup Type	Length	UPC
9207 010100	Black	Reel	100 ft	612825225270
9207 010500	Black	Reel	500 ft	612825225324
9207 010U500	Black	UnReel	500 ft	612825225263
9207 0101000	Black	Reel	1,000 ft	612825225287
9207 0101640	Black	Reel	1,640 ft	612825225294
9207 0103280	Black	Reel	3,280 ft	612825225317
9207 0105000	Black	Reel	5,000 ft	612825225331

Footnote:	C - CRATE REEL PUT-UP.
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History

Update and Revision:	Revision Number: 0.254 Revision Date: 04-28-2020
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