

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

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

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, LS0H, Toxicity Testing

UL Flammability:	UL1685 FT4 Loading
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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