



Description:

75 ohm, 30 AWG stranded (7x38) .012" silver-plated copper-covered steel conductor, TFE Teflon® insulation, silver-plated copper braid shield (95% coverage), TFE tape jacket.

Physical Characteristics (Overall)

Conductor

AWG:

# Coax	AWG	Stranding	Conductor Material	Dia. (in.)
1	30	7x38	SPCCS - Silver Plated Copper Covered Steel	.012

Insulation

Insulation Material:

Insulation Trade Name	Insulation Material	Dia. (in.)
Teflon®	TFE - Tetrafluoroethylene	.063

Outer Shield

Outer Shield Material:

Type	Outer Shield Material	Coverage (%)
Braid	SPC - Silver Plated Copper	95

Outer Jacket

Outer Jacket Material:

Outer Jacket Trade Name	Outer Jacket Material
Teflon®	TFE - Tetrafluoroethylene

Overall Cabling

Overall Nominal Diameter: 0.103 in.

Mechanical Characteristics (Overall)

Operating Temperature Range: -70°C To +200°C

Non-UL Temperature Rating: 200°C

Bulk Cable Weight: 11 lbs/1000 ft.

Max. Recommended Pulling Tension: 18 lbs.

Min. Bend Radius (Install)/Minor Axis: 1 in.

Applicable Specifications and Agency Compliance (Overall)

Applicable Standards & Environmental Programs

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): 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

Military Specification: MIL-C-17D

RG Type: 187A/U

Flame Test

UL Flame Test: VW-1

Plenum/Non-Plenum

Plenum (Y/N): No

Electrical Characteristics (Overall)

Nom. Characteristic Impedance:

Impedance (Ohm)	Tolerance (Ohms)
75	± 3

Nom. Inductance:

Inductance (µH/ft)
0.10

Nom. Capacitance Conductor to Shield:

Capacitance (pF/ft)
19.5

Nominal Velocity of Propagation:

VP (%)
69.5

Nominal Delay:

Delay (ns/ft)
1.44

Nom. Conductor DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
244

Nominal Outer Shield DC Resistance:

DCR @ 20°C (Ohm/1000 ft)
8.6

Nom. Attenuation:

Freq. (MHz)	Attenuation (dB/100 ft.)
1	3.0
10	5.3
50	8.5
100	10.0
200	12.5
400	16.0
700	19.7
900	22.3
1000	24.0

Max. Operating Voltage - Non-UL:

Voltage
900 V RMS

Notes (Overall)

Notes: Teflon® is a registered trademark of E. I. duPont de Nemours and Co. used under license by Belden, Inc.

Put Ups and Colors:

Item #	Putup	Ship Weight	Color	Notes	Item Desc
83267 009100	100 FT	1.900 LB	WHITE	E	#30 COAX RG-187A/U
83267 0091000	1,000 FT	11.000 LB	WHITE	E	#30 COAX RG-187A/U

Notes:

E = MAY CONTAIN MORE THAN 1 PIECE. MINIMUM LENGTH OF ANY ONE PIECE IS 25'

Computer and Instrumentation Cable

75 Ohm Coax

Description	Part No.	UL NEC/ C(UL) CEC Type	Standard Lengths		Standard Unit Weight		Conductor (stranding) Diameter Nom. DCR	Nominal Core OD		Shielding Materials Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Nominal Attenuation		
			Ft.	m	Lbs.	kg		Inch	mm		Inch	mm			pF/Ft.	pF/m	MHz	dB/100 Ft.	dB/100m

75 Ohm • 30 AWG Stranded (7x38) .012" Silver-plated Copper-covered Steel Conductor • Silver-plated Copper Braid Shield (95% Coverage)

TFE Teflon® Insulation • White TFE Tape Jacket

200°C	83267	—	100†	30.5	1.9	.9	30 AWG (7x38)	.063	1.60	SPC Braid	.103	2.62	75	69.5%	19.5	64.0	1	3.0	9.8
VW-1			1000†	304.8	11.0	5.0	.012"	SPCCS	244.0Ω/M'	801.0Ω/km	95% Shield Coverage							10	5.3
																	50	8.5	27.9
																	100	10.0	32.8
																	200	12.5	41.0
																	400	16.0	52.5
																	700	19.7	64.6
																	900	22.3	73.2
																	1000	24.0	78.7

RG-187A/U Type • MIL-C-17D

75 Ohm • Dual RG-59/U Type • 23 AWG Solid .023" Bare Copper-covered Steel Conductors • Bare Copper Braid Shield (95% Coverage)

Flame-retardant Semi-foam Polyethylene Insulation • Black PVC Jacket

UL AWM Style 20063 (300V 80°C)	9555	NEC:	500	152.4	38.5	17.5	23 AWG (solid)	.146	3.71	BC Braid	.238	6.05	75	66%	20.5	67.3	1	.6	2.0
		CM	1000	304.8	78.0	35.4	.023"	BCCS	50.0Ω/M'	164.0Ω/km	95% Shield Coverage	x	x	.478	12.14			10	1.1
		CEC:	2000	609.6	152.0	69.0											50	2.4	7.9
		CM															100	3.4	11.2
																	200	4.9	16.1
																	400	7.0	23.0
																	700	9.7	31.8
																	900	11.1	36.4
																	1000	12.0	39.4

75 Ohm • Dual RG-59/U Type • 23 AWG Solid .023" Bare Copper-covered Steel Conductors • Bare Copper Braid Shield (97% Coverage)

Plenum • FEP Insulation • Clear FEP Jacket

200°C	89555	NEC:	500	152.4	46.5	21.1	23 AWG (solid)	.134	3.40	BC Braid	.212	5.39	75	70%	19.5	64.0	1	.5	1.6
		CMP	1000	304.8	90.0	40.9	.023"	BCCS	50.0Ω/M'	164.0Ω/km	97% Shield Coverage	x	x	.424	10.77			10	1.1
		CEC:															50	2.5	8.2
		CM															100	3.5	11.5
																	200	5.1	16.7
																	400	7.5	24.6
																	700	10.4	34.1
																	900	12.0	39.4
																	1000	12.7	41.7

Suitable for Outdoor and Direct Burial applications.

75 Ohm • RG-6/U Type • 18 AWG Solid Bare Copper-covered Steel Conductor • Duobond® IV Quad Shield (100% Coverage)

Non-Plenum • Gas-injected Foam Polyethylene Insulation • Gray PVC Jacket

	3131A	NEC:	1000	304.8	39.0	17.7	18 AWG (solid)	.180	4.57	Duobond IV* Quad Shield	.300	7.62	75	82%	16.2	53.2	1	.35	1.15
		CL2R,	2500††	762.2	97.5	44.3	.040"	BCCS	28.0Ω/M'	91.9Ω/km	11.8Ω/km							2	.38
		CMR															5	.45	1.48
		CEC:															10	.59	1.94
		CMR FT4															20	.86	2.82
																	50	1.37	4.50
																	100	1.97	6.46
																	200	2.82	9.25
																	300	3.48	11.42
																	400	4.04	13.26

Sweep tested 5 MHz to 400 MHz. CPE jacket optional.

Plenum • Foam FEP Insulation • Gray Fluorocopolymer Jacket

150°C	3132A	NEC:	1000	304.8	36.0	16.4	18 AWG (solid)	.170	4.32	Duobond IV* Quad Shield	.274	6.96	75	82%	16.3	53.5	1	.36	1.18
		CMP					.040"	BCCS	28.0Ω/M'	19.9Ω/km	23.6Ω/km							2	.38
		CEC:															5	.50	1.64
		CMR FT6															10	.65	2.13
																	20	.95	3.12
																	50	1.50	4.92
																	100	2.12	6.96
																	200	2.99	9.81
																	300	3.66	12.01
																	400	4.23	13.88

Suitable for Outdoor and Direct Burial applications.

75 Ohm • RG-11/U Type • 14 AWG Solid Bare Copper-covered Steel Conductor • Duobond IV Quad Shield (100% Coverage)

Non-Plenum • Gas-injected Foam Polyethylene Insulation • Gray PVC Jacket

	3094A	NEC:	500	152.4	34.5	15.7	14 AWG (solid)	.280	7.11	Duobond IV* Quad Shield	.407	10.34	75	82%	16.2	53.2	1	.16	.53
		CL2R,	1000	304.8	69.0	31.3	.064"	BCCS	11.0Ω/M'	36.1Ω/km	4.9Ω/km							2	.18
		CMR	2000	609.6	136.0	61.7											5	.26	.85
		CEC:															10	.38	1.25
		CMG FT4															20	.55	1.81
																	50	.83	2.72
																	100	1.17	3.84
																	200	1.60	5.25
																	300	1.99	6.53
																	400	2.30	7.55

Tap marks every 2.6 meters to aid users in installation.

BC = Bare Copper • BCCS = Bare Copper-covered Steel • DCR = DC Resistance • FEP = Fluorinated Ethylene Propylene • SPC = Silver-coated Copper • SPCCS = Silver-coated Copper-covered Steel • TFE = Tetra Fluoroethylene

* Duobond IV = Bonded Duofoil® (100% coverage) + aluminum braid (67% coverage) + Duofoil (100% coverage) + aluminum braid (46% coverage).

† May contain more than one piece, minimum length of any one piece is 25 ft.

†† Spools may contain more than one piece. Final put-up may vary ±10% for spools and reels and ±5% for UnReel® cartons. 25 feet minimum length.

Teflon is a DuPont trademark.