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2

Networking Cables

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Introduction

The cables listed in this section are specially designed for network applications requiring optimum performance at high frequencies. This result is achieved with a bonded-pair design that guarantees uniform conductor-to-conductor spacing, even when the cable is subjected to constant installation stress. The benefits provided by a bonded-pair design include signal integrity maintaining, fewer reflected signal problems, and immunity to noise. Almost all cables cataloged here are available from stock or off-the-shelf from distributors. For custom applications with special technical requirements, please contact our support at www.innovcable.com.br/contato.htm.

Comment:

In the table's headers of this section, when referring to nominal capacitance, please consider the following definitions:


- * Capacitance between conductors.
- ** Capacitance between one conductor and other conductors connected to shield.

IEEE 802.3 • ISO/IEC 8802.3 10Base2

Trunk Cables - Thinnet and Thicknet


Description	Part No.	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		
		m	Ft.	kg	Lbs.		mm	Inch		mm	Inch			pF/m	pF/Ft.	MHz	dB/100 m	dB/100 Ft.

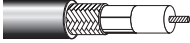
Thinnet 10Base2 • 20 AWG Stranded (19x32) .037" Tinned Copper Conductor • Bibond® II + 93% Tinned Copper Braid Shield

Non-Plenum • Ethernet • Foam Polyethylene Insulation • Gray PVC Jacket																			
	UL AWM Style 1354 (30V 80°C)	200001	152.4	500	5.7	12.5	20 AWG (19x32)	2.59	.102	Bibond II + 93% Tinned Copper Braid	4.70	.185	50	80%	83.3	25.4	1	1.4	.43
			U-304.8	U-1000	11.4	25.0	.037"										10	4.3	1.30
			304.8	1000	11.4	25.0	.037"										50	9.5	2.90
			500.0	1640	17.9	39.4	Tinned Copper										100	13.8	4.20
			U-762.0	U-2500	27.3	60.0	Copper										200	20.0	6.10
			762.0	2500	28.4	62.5	8.8Ω/M'										400	29.2	8.90
		1000.0	3280	37.3	82.0	28.9Ω/km'										700	39.7	12.10	
																900	45.6	13.90	
																1000	48.6	14.80	

For Plenum versions of 200001, see 200002 or 200003

DEC Part No. 17-01248-00

Plenum Ethernet • Foam FEP Insulation • Natural Enerflame® Jacket																			
	150V 75°C	200002	152.4	500†	5.7	12.5	20 AWG (19x32)	2.41	.095	Bibond II + 93% Tinned Copper Braid	4.06	.160	50	80%	83.3	25.4	1	1.4	.43
			U-304.8	U-1000	10.5	23.0	.037"										10	4.3	1.30
			304.8	1000†	10.9	24.0	.037"										50	9.5	2.90
			762.0	2500†	26.1	57.5	Tinned Copper										100	13.8	4.20
							Copper										200	20.0	6.10
							8.8Ω/M'										400	30.2	9.20
						28.9Ω/km'										700	42.3	12.90	
																900	49.2	15.00	
																1000	52.5	16.00	



Plenum Ethernet • Foam FEP Insulation • Gray Fluorocopolymer Jacket																			
	150V 150°C	200003†	152.4	500†	5.9	13.0	20 AWG (19x32)	2.41	.095	Bibond II + 93% Tinned Copper Braid	4.06	.160	50	80%	83.3	25.4	1	1.4	.43
			304.8	1000†	10.9	24.0	.037"										10	4.3	1.30
			762.0	2500†	27.3	60.0	.037"										50	9.5	2.90
							Tinned Copper										100	13.8	4.20
							Copper										200	20.0	6.10
							8.8Ω/M'										400	30.2	9.20
						28.9Ω/km										700	42.3	12.90	
																900	49.2	15.00	
																1000	52.5	16.00	

DEC Part No. 17-01246-00
Suitable for Outdoor and Direct Burial applications.

DCR = DC Resistance • TC = Tinned Copper

† Spools are one piece, but length may vary ±10% from length shown.

IEEE 802.3 • ISO/IEC 8802.3 10Base5**Trunk Cables - Thinnet and Thicknet**

Description	Part No.	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		
		m	Ft.	kg	Lbs.		mm	Inch		mm	Inch			pF/m	pF/Ft.	MHz	dB/100 m	dB/100 Ft.
Thicknet 10Base5 • 12 AWG Solid .086" Bare Copper Conductor • Bibond IV* Quad Shield																		
Non-Plenum • Ethernet • Foam Polyethylene Insulation • Yellow PVC Jacket																		
UL AWM	200004	152.4	500	30.0	66.0	12 AWG	6.17	.243	Bibond IV	10.29	.405	50	78%	85.0	26.0	1	.62	.19
Style 1478		304.8	1000	59.5	131.0	(solid)			(Bibond II							5	1.21	.37
(30V 60°C)		500.0	1640	99.9	219.8	.086"			+ 94%							10	1.71	.52
						Bare Copper			TC Braid							50	3.94	1.20
					1.42Ω/M'			+ Bifoil®							100	5.58	1.70	
					4.66Ω/km			+ 90%							200	8.37	2.55	
								TC Braid)							400	12.80	3.90	
								1.52Ω/M'							700	18.10	5.50	
								5.0Ω/km							900	21.30	6.50	
															1000	22.60	6.90	
Plenum Ethernet • Foam FEP Insulation • Orange Fluorocopolymer Jacket																		
150°C	200005	152.4	500 [†]	30.5	67.0	12 AWG	6.22	.245	Bibond IV	9.53	.375	50	78%	85.0	26.0	1	.59	.18
		304.8	1000 [†]	60.9	134.0	(solid)			(Bibond II							5	1.21	.37
		500.0	1640 [†]	102.1	224.7	.086"			+ 90%							10	1.71	.52
						Bare Copper			TC Braid							50	3.77	1.15
					1.42Ω/M'			+ Bifoil							100	5.41	1.65	
					4.66Ω/km			+ 90%							200	8.04	2.45	
								TC Braid)							400	12.50	3.80	
								1.52Ω/M'							700	18.40	5.60	
								5.0Ω/km							900	22.30	6.80	
															1000	23.60	7.20	

DEC Part No. 17-00451-00

Ring-band stripes marked every 2.5 meters to aid users in tap placement.

DEC Part No. 17-00324-00

Suitable for Outdoor and Direct Burial applications.

Ring-band stripes marked every 2.5 meters to aid users in tap placement.

DCR = DC Resistance • TC = Tinned Copper

* Bibond IV = Bibond II + 94% tinned copper braid + Bifoil® + 90% tinned copper braid. (Plenum version is Bibond II + 90% tinned copper braid + Bifoil + 90% tinned copper braid.)

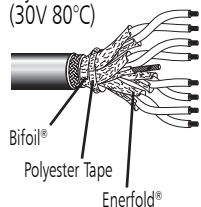
IEEE 802.3 • ISO/IEC 8802.3 10Base5 Transceiver Cables

Description	Part No.	No. of Pairs	Color Code	Standard lengths		Standard Unit Weight		Conductor (stranding) Nom. DCR	Shielding Materials Nom. DCR	Nominal OD		Drain Wire	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance			
				m	Ft.	kg	Lbs.			mm	Inch				* pF/m	* pF/Ft.	** pF/m	** pF/Ft.

28 and 24 AWG Stranded Tinned Copper • Twisted Pairs • Overall Polyester Isolation Tape + Bifoil® + TC Braid Shield • Drain Wire

Non-Plenum • Polypropylene Insulation • Light Gray PVC Jacket

UL AWM Style 2919 (30V 80°C)	200006	4	Gray/White, Yellow/Orange, Green/Blue, Black/Red	152.4 304.8	500 1000	9.8 19.5	21.5 43.0	3 Pair: 28 AWG (7x36) TC 65.0Ω/M' 213.0Ω/km 1 Pair: 24 AWG (7x32) TC 24.0Ω/M' 78.7Ω/km Each Pair Individually Enerfoil® Shielded	Polyester Isolation Tape + Bifoil® + 92% Tinned Copper Braid 2.9Ω/M' 9.5Ω/km	6.35	.250	24 AWG Stranded Tinned Copper	78*	66%	64.6	19.7	114.2	34.8
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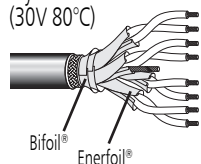


* 3 Pairs

20 AWG Stranded (7x28) Tinned Copper • Twisted Pairs • Overall Polyester Isolation Tape + Bifoil + TC Braid Shield • Drain Wire

Non-Plenum • Enerlene® Insulation • Light Gray PVC Jacket

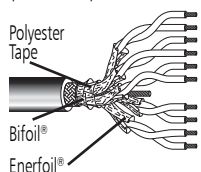
UL AWM Style 2919 (30V 80°C)	200007	4	Gray/White, Yellow/Orange, Blue/Green, Red/Black	152.4 304.8	500 1000	24.3 48.2	53.5 106.0	20 AWG (7x28) Tinned Copper Each Pair Individually Enerfoil Shielded 10.5Ω/M' 34.4Ω/km	Polyester Isolation Tape + Bifoil + 95% Tinned Copper Braid 2.0Ω/M' 6.6Ω/km	10.54	.415	22 AWG Stranded Tinned Copper	78	78%	54.8	16.7	96.8	29.5
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For Plenum version of 200007, see 200009

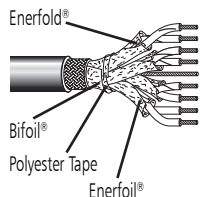
DEC Part No. 17-01320-00

UL AWM Style 2919 (30V 80°C)	200008	5	Gray/White, Yellow/Orange, Blue/Green, Red/Brown, Red/Black	152.4 304.8	500 1000	34.8 65.9	76.5 145.0	20 AWG (7x28) Tinned Copper Each Pair Individually Enerfoil Shielded 10.5Ω/M' 34.4Ω/km	Polyester Isolation Tape + Bifoil + 95% Tinned Copper Braid 1.65Ω/M' 5.4Ω/km	12.70	.500	20 AWG Stranded Tinned Copper	78	78%	54.8	16.7	96.8	29.5
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Plenum • FEP Enerflon® Insulation† • Light Gray Fluorocopolymer (PVDF) Jacket

150°C	200009	4	Gray/White, Yellow/Orange, Blue/Green, Red/Black	152.4 304.8	500† 1000†	23.4 47.3	51.5 104.0	20 AWG (7x28) Tinned Copper Each Pair Individually Enerfoil Shielded 10.5Ω/M' 34.4Ω/km	Polyester Isolation Tape + Bifoil + 95% Tinned Copper Braid 1.5Ω/M' 4.9Ω/km	9.40	.370	22 AWG Stranded Tinned Copper	78	78%	54.8	16.7	96.8	29.5
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† Foam FEP (data pairs) and solid FEP (power pair).

DEC Part No. 17-01319-00. Suitable for Outdoor and Direct Burial applications.

DCR = DC Resistance • TC = Tinned Copper

† Spools are one piece, but length may vary ±10% from length shown.

Enerflon is a Innovable trademark.

IEEE 802.4 MAP & Mini-MAP • IEEE 802.7 Broadband Coaxial Cables

Description	Part No.	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		
		m	Ft.	kg	Lbs.		mm	Inch		mm	Inch			pF/m	pF/Ft.	MHz	dB/100 m	dB/100 Ft.

RG-6/U Type • 18 AWG Solid Bare Copper-covered Steel • Bibond® IV* Quad Shield

Non-Plenum • Foam Polyethylene Insulation • Gray PVC Jacket

	200010	304.8	1000†	18.6	41.0	18 AWG	4.57	.180	Bibond IV	7.57	.298	75	82%	53.1	16.2	1	1.2	.35		
		762.2	2500	44.3	97.5	(solid)			Quad Shield								2	1.3	.38	
						.040"				3.6Ω/M'								5	1.5	.45
						Bare Copper				11.8Ω/km								10	1.9	.59
						Covered												20	2.8	.86
						Steel												50	4.5	1.37
						28.0Ω/M'												100	6.5	1.97
						91.8Ω/km												200	9.3	2.82
																		300	11.4	3.48
																		400	13.3	4.04

Tap marks every 2.6 meters to aid users in installation.

Plenum • Foam FEP Insulation • Gray Fluorocopolymer Jacket

	200011	304.8	1000†	16.4	36.0	18 AWG	4.32	.170	Bibond IV	6.96	.274	75	82%	53.5	16.3	1	1.2	.36			
		150°C				(solid)			Quad Shield									2	1.3	.38	
						.040"				3.6Ω/M'									5	1.6	.50
						Bare Copper				11.8Ω/km									10	2.1	.65
						Covered													20	3.1	.95
						Steel													50	4.9	1.50
						28.0Ω/M'													100	7.0	2.12
						91.8Ω/km													200	9.8	2.99
																			300	12.0	3.66
																			400	13.9	4.23

Tap marks every 2.6 meters to aid users in installation.
Suitable for Outdoor and Direct Burial applications.

RG-11/U Type • 14 AWG Solid Bare Copper-covered Steel • Bibond IV* Quad Shield

Non-Plenum • Foam Polyethylene Insulation • Gray PVC Jacket

	200012	152.4	500†	14.1	31.0	14 AWG	7.11	.280	Bibond IV	10.34	.407	75	82%	53.1	16.2	1	1.0	.30			
						(solid)			Quad Shield									2	1.0	.32	
						.064"				1.8Ω/M'									5	1.3	.40
						Bare Copper				5.9Ω/km									10	2.0	.60
						Covered													20	2.3	.71
						Steel													50	3.0	.90
						11.0Ω/M'													100	3.9	1.20
						36.1Ω/km													200	5.9	1.70
																			300	6.8	2.08
																			400	7.9	2.40

Tap marks every 2.6 meters to aid users in installation.

Plenum • Foam FEP Insulation • Gray Fluorocopolymer Jacket

	200013	304.8	1000†	34.5	76.0	14 AWG	7.11	.280	Bibond IV	9.83	.387	75	82%	54.1	16.5	1	.7	.20			
		150°C				(solid)			Quad Shield									2	.7	.22	
						.064"				1.8Ω/M'									5	.9	.28
						Bare Copper				5.9Ω/km									10	1.3	.39
						Covered													20	2.0	.60
						Steel													50	3.9	1.20
						11.0Ω/M'													100	5.6	1.70
						36.1Ω/km													200	8.2	2.50
																			300	10.0	3.04
																			400	11.5	3.50

Tap marks every 2.6 meters to aid users in installation.
Suitable for Outdoor and Direct Burial applications.

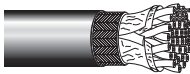
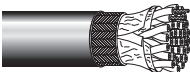
DCR = DC Resistance

* Bibond IV Quad Shield = Bibond + 60% aluminum braid + Bifoil® + 40% aluminum braid.

† Spools are one piece, but length may vary ±10% from length shown.

SCSI 2 Paired Cable

(Small Computer System Interface)

Description	Part No.	No. of Pairs	Standard lengths		Standard Unit Weight		Nominal OD		AWG (stranding) Material Nom. DCR	Shielding Material Nom. DCR	Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance			
			m	Ft.	kg	Lbs.	mm	Inch					* pF/m	* pF/Ft.	** pF/m	** pF/Ft.
SCSI • 28 AWG Stranded (7x36) TC Twisted Pairs • Overall Enerfoil® Shield + 85% TC Braid Shield • Color Code: Mod. Western Electric Standard Non-Plenum • Flame-retardant Polyolefin Insulation • Polypropylene Buffer Layer • Light Gray PVC Jacket																
	200014	25	152.4 304.8	500 1000	23.4 45.9	51.5 101.0	10.7	.420	28 (7x36) TC 64.9Ω/M' 212.9Ω/km	Overall Enerfoil + 85% TC Braid 2.0Ω/M' 6.6Ω/km	120 [†] 80 ^{††}	66%	45.9	12.7	98.4	30.0
	200015	34	152.4 304.8	500 1000	32.5 63.2	71.5 139.0	12.2	.480	28 (7x36) TC 64.9/M' 212.2Ω/km	Overall Enerfoil + 85% TC Braid 1.5Ω/M' 4.9Ω/km	120 [†] 80 ^{††}	66%	45.9	12.7	98.4	30.0

DCR = DC Resistance • TC = Tinned Copper
[†] Differential mode impedance.
^{††} Single end mode termination impedance.

Color Codes: Modified Western Electric Standard

Pair No.	Color Combination	Pair No.	Color Combination	Pair No.	Color Combination	Pair No.	Color Combination
1	White/Blue Stripe & Blue/White Stripe	10	Red/Gray Stripe & Gray/Red Stripe	19	Yellow/Brown Stripe & Brown/Yellow Stripe	28	White & Green
2	White/Orange Stripe & Orange/White Stripe	11	Black/Blue Stripe & Blue/Black Stripe	20	Yellow/Gray Stripe & Gray/Yellow Stripe	29	White & Brown
3	White/Green Stripe & Green/White Stripe	12	Black/Orange Stripe & Orange/Black Stripe	21	Purple/Blue Stripe & Blue/Purple Stripe	30	White & Gray
4	White/Brown Stripe & Brown/White Stripe	13	Black/Green Stripe & Green/Black Stripe	22	Purple/Orange Stripe & Orange/Purple Stripe	31	Red & Blue
5	White/Gray Stripe & Gray/White Stripe	14	Black/Brown Stripe & Brown/Black Stripe	23	Purple/Green Stripe & Green/Purple Stripe	32	Red & Orange
6	Red/Blue Stripe & Blue/Red Stripe	15	Black/Gray Stripe & Gray/Black Stripe	24	Purple/Brown Stripe & Brown/Purple Stripe	33	Red & Green
7	Red/Orange Stripe & Orange/Red Stripe	16	Yellow/Blue Stripe & Blue/Yellow Stripe	25	Purple/Gray Stripe & Gray/Purple Stripe	34	Red & Brown
8	Red/Green Stripe & Green/Red Stripe	17	Yellow/Orange Stripe & Orange/Yellow Stripe	26	White & Blue		
9	Red/Brown Stripe & Brown/Red Stripe	18	Yellow/Green Stripe & Green/Yellow Stripe	27	White & Orange		