

Industrial Data Solutions® – Industrial Ethernet Cables

Category 5e DataTuff® Twisted Pair Cables
Heavy Duty Sunlight- and Oil-Resistant Jackets



De-scription	Part No.	UL NEC/ C(UL)/CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Freq. MHz	Max. Atten. dB/100m	Min. PSUM			Input Imp. (Ω)	Min. RL dB
			ft.	m	lbs.	kg		inch	mm		inch	mm			NEXT dB	ACR dB/100m	ELFEXT dB/100m		

Cat 5e • 24 AWG • Bonded-Pair • Solid 0.5 mm Bare Copper • Rip Cord

Polyethylene Insulation • Industrial Grade Sunlight- and Oil-Resistant FRNC/LSNH Jacket (Black and Grey)																			
<p>Rip Cord</p>	BEB1212 IEC 60332-1	1000	305	20.1	9.1	0.51 mm	0.037	0.95	Bonded-Pair	0.217	5.50	1	2.0	62.3	60.3	60.8	100 ± 15	20.0	
		1640	500	33.1	15.0	24 AWG			Unshielded			4	4.1	53.3	49.2	48.7	100 ± 15	23.0	
													10	6.3	47.3	41.0	40.8	100 ± 15	25.0
													16	8.0	44.3	36.2	36.7	100 ± 15	25.0
													25	10.1	41.3	31.2	32.8	100 ± 15	25.0
													62.5	16.5	35.4	18.9	24.8	100 ± 15	21.5
											100	21.3	32.3	11.0	20.8	100 ± 15	20.1		

4-Pair
EtherNet/IP Compliant

Color Code: see chart below
Burning Energy: 400 kJ/m
RJ-45 Compatible, -25°C Cold Bend

Verified to ISO/IEC 11801 (2nd Edition), EN-50173-1, TIA/EIA-568-B.2, Category 5e
U.S. Patents 5,606,151 and 5,734,126
Jacket sequentially marked at 1 m intervals.

Cat 5e • 24 AWG • Bonded-Pair • Solid 0.5 mm Bare Copper • Overall Beldfoil® Shield + 40% TC Braid • 26 AWG TC Drain Wire

Polyethylene Insulation • Industrial Grade Sunlight- and Oil-Resistant FRNC/LSNH Jacket (Black, Grey and Blue)																				
<p>4-Pair EtherNet/IP Compliant</p>	BEB3212 IEC 60332-1	1000	305	30.9	14.0	0.51 mm	0.041	1.05	Bonded-Pair	0.262	6.65								see above	
		1640	500	50.7	23.0	24 AWG			Overall Beldfoil®											
										+ Overall										
										40% TC Braid										
										+ Drain Wire										
										(26 AWG TC)										

4-Pair
EtherNet/IP Compliant

Color Code: see chart below
Burning Energy: 575 kJ/m
RJ-45 Compatible, -25°C Cold Bend

Verified to ISO/IEC 11801 (2nd Edition), EN-50173-1, Category 5e
U.S. Patents 5,606,151 and 5,734,126
Jacket sequentially marked at 1 m intervals.

Enhanced Cat 5e • 24 AWG • Bonded-Pair • Solid 0.5 mm Bare Copper • Overall Beldfoil® Shield • 24 AWG Tinned Copper Drain Wire

Polyolefin Insulation • Industrial Grade Sunlight- and Oil-Resistant Black PVC Jacket (Black and Blue)																				
<p>4-Pair</p>	7929A NEC: CMR CMX-Outdoor CEC: CMR FT4	1000	305	37.0	16.8	0.51 mm	0.045	1.14	Bonded-Pair	0.265	6.73	1	2.0	62.3	60.3	60.8	100 ± 15	20.0		
		2000	610	72.1	32.7	24 AWG			Overall Beldfoil®				4	4.1	53.3	49.2	48.7	100 ± 15	23.0	
										+ Drain Wire				10	6.5	47.3	40.8	40.8	100 ± 15	25.0
										(24 AWG TC)				16	8.2	44.3	36.1	36.7	100 ± 15	25.0
														31.25	11.7	39.9	28.2	30.9	100 ± 15	23.6
														62.5	17.0	35.4	18.4	24.8	100 ± 15	21.5
												100	22.0	32.3	10.3	20.8	100 ± 15	20.1		
												200	32.4	27.8	1.0	14.7	100 ± 15	15.0		

4-Pair

Color Code: see chart below
RJ-45 Compatible, -25°C Cold Bend
610 m put-up available in Black only.

Third party verified to TIA/EIA-568-B.2, Category 5e
U.S. Patents 5,606,151 and 5,734,126
Shield is bonded to jacket inner wall for electrical stability. Jacket sequentially marked at 0.6 m intervals.

Enhanced Cat 5e • 24 AWG • Bonded-Pair • Solid 0.5 mm BC • Overall Beldfoil® Shield + 70% TC Braid • 24 AWG Spiral Drain Wire

Polyolefin Insulation • Industrial Grade Sunlight- and Oil-Resistant Black PVC Jacket (Black, Red, Blue and Teal)																				
<p>4-Pair</p>	7921A NEC: CMR CMX-Outdoor CEC: CMR FT4	1000	305	54.9	24.9	0.51 mm	0.047	1.19	Bonded-Pair	0.330	8.38	1	2.0	62.3	60.3	60.8	100 ± 15	20.0		
		2000	610	106.0	48.1	24 AWG			Overall Beldfoil®				4	4.1	53.3	49.2	48.7	100 ± 15	23.6	
										+ Overall				10	6.5	47.3	40.8	40.8	100 ± 15	26.0
										70% TC Braid				16	8.2	44.3	36.1	36.7	100 ± 15	26.0
										+ Drain Wire				31.25	11.7	39.9	28.2	30.9	100 ± 15	25.0
										(24 AWG TC)				62.5	17.0	35.4	18.4	24.8	100 ± 15	23.5
												100	22.0	32.3	10.3	20.8	100 ± 15	22.5		

4-Pair

Color Code: see chart below
-25°C Cold Bend
610 m put-up available in Black only.

Third party verified to TIA/EIA-568-B.2, Category 5e
U.S. Patents 5,606,151 and 5,734,126
Jacket sequentially marked at 0.6 m intervals.

TC = Tinned Copper • BC = Bare Copper • ACR = Attenuation Crosstalk Ratio • ELFEXT = Equal Level Far-end Crosstalk • NEXT = Near-end Crosstalk • PSUM = Power Sum • RL = Return Loss • DCR = DC resistance

Color Code

Pair No.	Color
1	White/Blue Stripe, Blue
2	White/Orange Stripe, Orange
3	White/Green Stripe, Green
4	White/Brown Stripe, Brown



For more information, contact Belden Technical Support +31-77-3875-414 • www.belden-emea.com

Industrial Data Solutions® – Industrial Twinax

Blue Hose® Cables



De-scription	Part No.	UL NEC / C(UL)CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material 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/100 m

20 AWG • Stranded (7x28) 1.0 mm Tinned Copper • Overall **Beldfoil®** + 55% Tinned Copper Braid • 20 AWG Tinned Copper Drain Wire

Polyethylene Insulation • Blue Sunlight-Resistant PVC Jacket

300V 80°C	9463	NEC:	100	31	4.2	1.9	0.96 mm	0.076	1.92	Overall	0.238	6.05	78	66%	19.7	64.6	1	0.6	2.0
UL AWM Style 2464		CM CL2	U-500	U-152	18.5	8.4	20 AWG			Beldfoil®							10	2.1	6.9
		CEC:	500	152	18.5	8.4	(7x28) TC			+ Overall							50	5.0	16.4
		CM	U-1000	U-305	37.0	16.8				55% TC Braid							100	7.5	24.6
			1000	305	37.0	16.8				+ Drain Wire							200	11.0	36.1
			† 6000	1829	233.9	106.1				(20 AWG TC)							400	16.0	52.5
			† 10000	3048	370.8	168.2													



Z-Fold®

Color Code: Clear, Blue
305 m, 1829 m and 3048 m put-ups also available in Brown, Orange or Violet.

Allen-Bradley P/N 1770-CD
P-7K-SC-182141-MSHA*
CPE jacket optional.

Polyethylene Insulation • Blue FRNC/LSNH Jacket

300V 80°C	9463NH	IEC	1000	305	37.5	17.0	0.96 mm	0.077	1.96	Overall	0.250	6.35	78	66%	19.7	64.6			see above	
		332-3C	1640	500	64.6	29.3	20 AWG			Beldfoil®										
		BS 7655	3280	1000	117.5	53.3	(7x28) TC			+ Overall										
										55% TC Braid										
										+ Drain Wire										
										(20 AWG TC)										



Z-Fold®

Color Code: Clear, Blue

Polyethylene Insulation • Blue FRNC/LSNH Inner Jacket • Steel Wire Armor • Blue FRNC/LSNH Outer Jacket

300V 80°C	9463LS	IEC	1640	500	249.1	113.0	0.96 mm	0.077	1.96	Overall	0.250	6.35	78	66%	19.7	64.6			see above	
Steel Wire Armor		332-3C	3280	1000	537.9	244.0	20 AWG			Beldfoil®	0.423	10.75								
		BS 7655	4920	1500	925.9	420.0	(7x28) TC			+ Overall										
										55% TC Braid										
										+ Drain Wire										
										(20 AWG TC)										



Z-Fold®

Color Code: Clear, Blue

Polyethylene Insulation • Blue Sunlight-Resistant LDPE Jacket

300V 80°C	9463DB		1000	305	33.1	15.0	0.96 mm	0.076	1.92	Overall	0.240	6.10	78	66%	19.7	64.6			see above	
Flooded			5000	1524	155.2	70.4	20 AWG			Beldfoil®										
Direct Burial							(7x28) TC			+ Overall										
										55% TC Braid										
										+ Drain Wire										
										(20 AWG TC)										



Z-Fold®

Color Code: Clear, Blue

Allen-Bradley P/N 1770-CD

20 AWG • Stranded (42x36) 1.0 mm Tinned Copper • Overall **Beldfoil®** + 85% Tinned Copper Braid

Polyethylene Insulation • Blue Sunlight-Resistant PVC Jacket

300V 60°C	9463F	NEC:	1000	305	42.1	19.1	0.97 mm	0.075	1.91	Overall	0.243	6.17	78	66%	19.7	64.6			see above	
UL AWM Style 2464		CM CL2	5000	1524	205.2	93.1	20 AWG			Beldfoil®										
		CEC:					(42x36) TC			+ Overall										
		CM								85% TC Braid										



Z-Fold®

High-Flex

Color Code: Clear, Blue

Allen-Bradley P/N 1770-CD
P-7K-SC-182141-MSHA*

TC = Tinned Copper • DCR = DC resistance

† Final put-up length may vary ±10% from length shown.

* Pennsylvania Department of Environmental Resources and United States Mine Safety and Health Administration Certification.

Industrial Data Solutions® – Industrial Twinax

Twinaxial Cables



De- scription	Part No.	UL NEC/ C(UL)/CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material 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/ 100 m

20 AWG • Stranded (7x28) 1.0 mm One Tinned, One Bare Copper • Duofoil® • 86% Tinned Copper Braid

Polyethylene Insulation • Polyethylene Inner Jacket • Black PVC Outer Jacket																						
75°C	9207	NEC:	100	31	7.1	3.2	0.96 mm	0.083	2.11	Overall Duofoil® + Overall 86% TC Braid	0.330	8.38	100	66%	14.5	47.6	1	0.3	1.0			
		CMG CL2	U-500	U-152	34.2	15.5	20 AWG	10	1.2											3.9		
		CEC:	500	152	34.6	15.7	(7x28) TC + BC															
		CMG FT4	1000	305	68.1	30.9	50														2.8	9.2
			1640	500	111.8	50.7																
			2000	610	136.2	61.8																
			3280	1000	220.2	99.9																
	5000	1524	350.8	159.1	100	4.1		13.5														
							200		6.4	21.0												
											400	10.2	33.5									

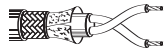


Color Code: Clear, Clear

IBM P/N 7362211

CPE jacket optional

Polyethylene Insulation • Black FRNC/LSNH Jacket																		
80°C	9207NH	IEC 332	1000	305	44.3	20.1	0.96 mm	0.077	1.96	Overall Duofoil® + Overall 86% TC Braid	0.339	8.60	100	66%	14.5	47.6		see above
		BS 7655	1640	500	69.9	31.7	20 AWG											
			3280	1000	143.7	65.2	(7x28) TC + BC											



Color Code: Clear, Clear

16 AWG • Solid 1.3 mm Bare Copper • Duofoil® • 90% Tinned Copper Braid

Foam Polyethylene Insulation • Black PVC Jacket																						
30V 60°C UL AWM Style 2448	9860	NEC:	500	152	52.0	23.6	1.29 mm	0.161	4.09	Overall Duofoil® + Overall 90% TC Braid	0.440	11.18	124	78%	10.9	35.8	1	0.2	0.6			
		CMX	1000	305	103.2	46.8	16 AWG	10	0.7											2.3		
		CEC:	2000	610	202.4	91.8	Solid BC															
		CMX					50														1.8	5.9
					200	4.1		13.5														
										400	6.2	20.3										



Color Code: Clear, Blue

CPE jacket optional

Foam Polyethylene Insulation • Black FRNC/LSNH Jacket																		
80°C	9860NH	IEC 332	1640	500	183.0	83.0	1.29 mm	0.161	4.09	Overall Duofoil® + Overall 90% TC Braid	0.441	11.20	124	78%	10.9	35.8		see above
		BS 7655	3280	1000	354.9	161.0	16 AWG											
							Solid BC											



Color Code: Clear, Blue

Foam Polyethylene Insulation • FRNC/LSNH Chrome Inner Jacket • Steel Wire Armor • Black FRNC/LSNH Outer Jacket																		
80°C	9860LS	IEC	1640	500	581.8	263.8	1.29 mm	0.161	4.09	Overall Duofoil® + Overall 90% TC Braid	*0.441	*11.20	124	78%	10.9	35.8		see above
		332-3C	3280	1000	1262.6	572.7	16 AWG											
		BS 7655					Solid BC											



Color Code: Clear, Blue

* Under Armor

** Over Armor

TC = Tinned Copper • DCR = DC resistance
Duofoil® see technical information page 23.13.

Industrial Data Solutions® – Industrial Twinax

Twinaxial Cables



De- scription	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material 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.

22 AWG • Stranded (19x34) 0.8 mm Tinned Copper • Duofoil® • 22 AWG Tinned Copper Drain Wire**Datalene® Insulation • Black PVC Jacket**

30V 60°C	9182	NEC:	U-500	U-152	22.5	10.2	0.78 mm	0.137	3.49	Overall	0.345	8.76	150	78%	8.8	28.9	1	0.4	1.3
UL AWM Style 2668		CL2X CMX	500	152	22.9	10.4	22 AWG			Duofoil®							10	1.2	3.9
		CEC:	1000	305	44.1	20.0	(19x34) TC			+ Drain Wire							50	2.7	8.9
		CMX								(22 AWG TC)							100	4.3	14.1
																	200	6.2	20.3
																	400	8.8	28.9



VW-1

Color Code: Black, Yellow

Dual version: YR41609
CPE jacket optional.**Datalene® Insulation • Black FRNC/LSNH Jacket**

300V 80°C	9182NH	IEC 332-1	1000	305	50.3	22.8	0.78 mm	0.136	3.45	Overall	0.346	8.80	150	78%	8.8	28.9	1	0.4	1.3
		BS 7655	1640	500	80.0	36.3	22 AWG			Duofoil®							5	0.9	2.8
			3280	1000	150.1	68.1	(19x34) TC			+ Drain Wire							10	1.2	3.9
										(22 AWG TC)							20	1.7	5.6
																	50	2.7	8.9
																	100	4.3	14.1
																	200	6.2	20.3
																	400	8.8	28.9



Color Code: Black, Yellow

Plenum • Foam FEP Teflon® Insulation • Black FEP Teflon® Jacket

	89182	NEC:	100	31	6.4	2.9	0.78 mm	0.139	3.53	Overall	0.307	7.80	150	78%	8.8	28.9	1	0.4	1.3
		CMP	† 500	152	28.0	12.7	22 AWG			Duofoil®							10	1.2	3.9
		CL2P	† 1000	305	53.1	24.1	(19x34) TC			+ Drain Wire							50	2.7	8.9
		CEC:								(22 AWG TC)							100	4.3	14.1
		CMP FT6															200	6.2	20.3
																	400	8.8	28.9



Color Code: Black, Yellow

TC = Tinned Copper • DCR = DC resistance

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

Duofoil® see technical information page 23.13.

Teflon® is a DuPont trademark.

Industrial Data Solutions® - Industrial Data
DataBus® ISA/SP-50 FOUNDATION Fieldbus or PROFIBUS Cables



De- scription	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material 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/ 100 m

FOUNDATION Fieldbus/PROFIBUS PA • 18 AWG • Stranded (7x26) 1.2 mm Tinned Copper • Beldfoil® • 20 AWG Tinned Copper Drain Wire

Polyolefin Insulation • PVC Jacket (Orange and Blue)

Type A	3076F	NEC:	250	76	10.6	4.8	1.22 mm	0.088	2.24	Overall	0.253	6.43	100 @	66%	24.0	78.7	0.039	0.1	0.26
300V 75°C		PLTC CM	500	152	18.5	8.4	18 AWG			Beldfoil®			31.25 KHz						
(31.25 kbits/sec)		ITC	1000	305	34.2	15.5	(7x26) TC			+ Drain Wire									
		CEC:	2500	762	85.1	38.6				(20 AWG TC)									
		CM	† 5000	1524	170.4	77.3													



Shorting Fold

Color Code: Orange, Blue
 Fieldbus: Orange jacket
 Profibus PA: Intrinsically safe Blue jacket.
 Blue available as standard in 305 m put-up only.
 CPE jacket optional.

123076F – Version with Aluminum Interlocked Armor
 133076F – Version with Steel Interlocked Armor
 YM47023 – CPE jacketed version
 YM46698 – Black & White color-coded pairs
 YM47090 – Various colored jackets
 YM41725 – LSZH (FRNC) jacketed version

Polyolefin Insulation • FRNC/LSNH Jacket (Blue and Orange)

300V 80°C	3076NH	IEC	1640	500	98.3	44.6	1.22 mm	0.088	2.24	Overall	0.295	7.50	100	66%	24.4	80.0	0.01	0.1	0.4
		332-3C	3280	1000	191.1	86.7	18 AWG			Beldfoil®							0.039	0.2	0.5
		BS 7655					(7x26) TC			+ Drain Wire							0.1	0.2	0.8
										(20 AWG TC)							0.5	0.6	2.1
																	1.0	1.0	3.2



Shorting Fold

Color Code: White, Black

Polyolefin Insulation • FRNC/LSNH Inner Jacket (Black and Blue) • Steel Wire Armor • Black FRNC/LSNH Outer Jacket

300V 80°C	3076LS	IEC	1640	500	394.8	179.1	1.22 mm	0.088	2.24	Overall	*0.295	*7.50	100	66%	24.4	80.0			see above
		332-3C	3280	1000	737.0	334.3	18 AWG			Beldfoil®	**0.512	**13.00							
		BS 7655					(7x26) TC			+ Drain Wire									
										(20 AWG TC)									



Shorting Fold

* Under Armor
 ** Over Armor

Color Code: White, Black

FOUNDATION Fieldbus • 22 AWG • Stranded (7x30) 0.8 mm Tinned Copper • Beldfoil® • 20 AWG Tinned Copper Drain Wire

Polyolefin Insulation • Orange PVC Jacket

Type B	3077F	NEC:	† 500	152	11.0	5.0	0.76 mm	0.059	1.50	Overall	0.196	4.97	100 @	66%	23.5	77.1	0.039	0.1	0.5
300V 150°C		PLTC CM	† 1000	305	22.9	10.4	22 AWG			Beldfoil®			31.25 KHz						
(31.25 kbits/sec)		ITC					(7x30) TC			+ Drain Wire									
		CEC:								(20 AWG TC)									
		CM																	



Shorting Fold

Color Code: Orange, Blue
 CPE and LSZH jacketed versions also available.

123077F – Version with Aluminum Interlocked Armor
 133077F – Version with Steel Interlocked Armor

Polyolefin Insulation • FRNC/LSNH Jacket (Blue and Orange)

300V 80°C	3077NH	IEC	1640	500	86.9	39.4	0.76 mm	0.059	1.50	Overall	0.295	7.50	100	66%	25.9	85.0	0.01	0.2	0.6
		332-3C	3280	1000	168.2	76.3	22 AWG			Beldfoil®							0.039	0.2	0.7
		BS 7655					(7x30) TC			+ Drain Wire							0.1	0.3	0.9
										(20 AWG TC)							0.5	1.1	3.5
																	1.0	1.6	5.1



Shorting Fold

Color Code: White, Black

Polyolefin Insulation • FRNC/LSNH Inner Jacket (Black and Blue) • Steel Wire Armor • Black FRNC/LSNH Outer Jacket

300V 80°C	3077LS	IEC	1640	500	381.8	173.2	0.76 mm	0.059	1.50	Overall	*0.295	*7.50	100	66%	25.9	85.0			see above
		332-3C	3280	1000	741.8	336.5	22 AWG			Beldfoil®	**0.512	**13.00							
		BS 7655					(7x30) TC			+ Drain Wire									
										(20 AWG TC)									



Shorting Fold

* Under Armor
 ** Over Armor

Color Code: White, Black

TC = Tinned Copper • DCR = DC resistance
 † Final put-up length may vary 0% to +10% from length shown.

Industrial Data Solutions® – Industrial Data

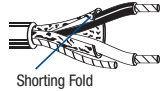
DataBus® ISA/SP-50 FOUNDATION Fieldbus or PROFIBUS Cables



De-scription	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material 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/ 100 m

FOUNDATION Fieldbus • 22 AWG • Stranded (7x30) 0.8 mm Tinned Copper • Beldfoil® • 20 AWG Tinned Copper Drain Wire

FHDPE Insulation • Orange PVC Jacket																		
High Speed 3078F	NEC:	250	76	9.9	4.5	0.76 mm	0.121	3.07	Overall	0.351	8.92	150 @	78%	8.5	27.9	0.25	0.2	0.6
300V 75°C	PLTC CM	500	152	22.9	10.4	22 AWG			Beldfoil®			1 MHz				0.625	0.3	0.9
(1.0 & 2.5 Mbits/sec)	CEC:	1000	305	44.1	20.0	(7x30) TC			+ Drain Wire							1.25	0.3	1.1
	CM	2500	762	115.1	52.2				(20 AWG TC)							3.125	0.6	1.8



Shorting Fold

Color Code: Orange, Blue
CPE and LSZH jacketed versions also available.

123078F – Version with Aluminum Interlocked Armor
133078F – Version with Steel Interlocked Armor

DataBus® PROFIBUS • DP EN50170-2-2

De-scription	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material 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/ 100 m

Profibus DP • 22 AWG • Solid 0.6 mm Bare Copper • Beldfoil® • 65% Tinned Copper Braid

FHDPE Insulation • Chrome and Violet PVC Jacket																			
300V 75°C	3079A	NEC:	1000	305	56.0	25.4	0.64 mm	0.099	2.52	Overall	0.315	8.00	150	78%	8.5	27.9	0.2	0.3	0.9
		PLTC CMG	2000	610	112.0	50.8	22 AWG			Beldfoil®							4	0.7	2.2
		CEC:	3600	1098	201.5	91.4	Solid BC			+ Overall							16	1.4	4.5
		CMG FT4							65% TC Braid								100	3.8	12.3
																	300	6.5	21.4



Color Code: Red, Green
Siemens Sinec L2 cable
UL AWM 20201 (600V)

123079A – Aluminum Interlocked Armor
133079A – Steel Interlocked Armor
YR45047 – CPE jacketed version
YR44731 – LSZH (FRNC) jacketed version

Profibus DP • 22 AWG • Stranded (7x30) 0.8 mm Bare Copper • Beldfoil® • 65% Tinned Copper Braid

FR-FPE Insulation • Violet PVC Jacket																			
300V 75°C	3079E	NEC:	1000	305	44.1	20.0	0.76 mm	0.099	2.52	Overall	0.315	8.00	150	78%	8.5	27.9	0.2	0.3	1.1
		PLTC CMG	1640	500	73.9	33.5	22 AWG			Beldfoil®							4	0.8	2.7
		CEC:	3280	1000	144.4	65.5	(7x30) BC			+ Overall							16	1.6	5.4
		CMG FT4							65% TC Braid								100	3.8	12.3



Color Code: Red, Green
For CPE jacketed version order Part No. YR45047

Cellular Polyolefin Insulation • Violet FRNC/LSNH Jacket

300V 80°C	3079ANH	IEC	1000	305	214.1	97.1	0.64 mm	0.099	2.52	Overall	0.315	8.00	150	78%	8.8	29.0	0.2	0.3	0.9
		332-3C	1640	500	358.2	162.5	22 AWG			Beldfoil®							4	0.7	2.2
		BS 7655	3280	1000	711.2	322.6	Solid BC			+ Overall							16	1.4	4.5
									65% TC Braid								100	3.8	12.3



Color Code: Red, Green

Cellular Polyolefin Insulation • Black PVC Jacket • Steel Wire Armor

300V 80°C	3079ALS	IEC	1640	500	102.5	46.5	0.64 mm	0.099	2.52	Overall	*0.315	*8.00	150	78%	8.5	27.9	0.2	0.3	0.9
		332-3C	3280	1000	183.0	83.0	22 AWG			Beldfoil®	**0.488	**12.40					4	0.7	2.2
		BS 7655					Solid BC			+ Overall							16	1.4	4.5
									65% TC Braid										



Color Code: Red, Green

* Under Armor
** Over Armor

TC = Tinned Copper • BC = Bare Copper • DCR = DC resistance

Industrial Data Solutions® - Industrial Data

LonWorks Cables



De- scription	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material 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/ 100 m

22 AWG • Solid 0.6 mm Bare Copper • Twisted Pair

Foam Polyethylene Insulation • White FRNC/LSNH Jacket

80°C	7701NH	IEC	1000	305	10.6	4.8	0.64 mm	0.046	1.17	Unshielded	0.138	3.50	100	68%	14.0	46.0	1	0.4	1.3
		332-3C	1640	500	17.6	8.0	22 AWG								1	0.5	1.5		
		BS 7655					Solid BC								4	0.9	3.1		
															10	1.5	4.9		
															16	1.9	6.3		
																	20	2.1	6.9



1-Pair

Color Code: White/Blue, Blue/White

Foam Polyethylene Insulation • White FRNC/LSNH Jacket

80°C	7702NH	IEC	1000	305	19.6	8.9	0.64 mm	0.046	1.14	Unshielded	0.205	5.20	100	68%	14.0	46.0	see above		
		332-3C					22 AWG												
		BS 7655					Solid BC												



2-Pair

Color Code: White/Blue, Blue/White, Orange/White, White/Orange

22 AWG • Solid 0.6 mm Bare Copper • Twisted Pair • Beldfoil® • 24 AWG Tinned Copper Drain Wire

Foam Polyethylene Insulation • White FRNC/LSNH Jacket

80°C	7703NH	IEC	1000	305	17.9	8.1	0.64 mm	0.061	1.55	Overall Beldfoil® + Drain Wire (24 AWG TC)	0.181	4.60	100	68%	24.4	80.0	1	0.5	1.8
		332-3C					22 AWG								1	0.6	2.0		
		BS 7655					Solid BC								4	1.1	3.6		
															10	1.7	5.5		
															16	2.1	7.0		
																	20	2.4	7.8



1-Pair

Color Code: White/Blue, Blue/White

Foam Polyethylene Insulation • White FRNC/LSNH Jacket

80°C	7704NH	IEC	1000	305	27.1	12.3	0.64 mm	0.053	1.35	Overall Beldfoil® + Drain Wire (24 AWG TC)	0.256	6.50	100	68%	12.2	40.0	see above		
		332-3C	1640	500	44.3	20.1	22 AWG												
		BS 7655	3346	1020	88.6	40.2	Solid BC												



2-Pair

Color Code: White/Blue, Blue/White, Orange/White, White/Orange

16 AWG • Stranded (19x29) 1.5 mm Tinned Copper • Twisted Pair

PVC Insulation • Chrome PVC Jacket

UL AWM Style 2598	8471	NEC:	U-500	U-152	20.1	9.1	1.47 mm	0.105	2.67	Unshielded	0.274	6.96							
		CMG	500	152	20.1	9.1	16 AWG												
		CEC:	U-1000	U-305	39.0	17.7	(19x29) TC												
		CMG FT4	1000	305	40.1	18.2													



1-Pair

Color Code: Black, White

TC = Tinned Copper • BC = Bare Copper • DCR = DC resistance

Industrial Data Solutions® – Industrial Data

LonWorks Cables



De- scription	Part No.	UL NEC/ C(UL)/CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Color Code
			ft.	m	lbs.	kg		inch	mm		inch	mm	

16 AWG • Stranded (19x29) 1.5 mm Tinned Copper • Twisted Pair

Polyethylene Insulation • Chrome FRNC/LSNH Jacket

Part 1	8471NH	IEC 60332	1000	305	60.5	27.5	1.47 mm	0.105	2.67	Unshielded	0.280	7.10	Black, White
			1640	500	66.1	30.0	16 AWG						
			3280	1000	132.3	60.0	(19x29) TC						



1-Pair

Polyethylene Insulation • FRNC/LSNH Inner Jacket • Steel Wire Armor • Chrome FRNC/LSNH Outer Jacket

Part 1	8471LS	IEC 60332	1000	305	248.9	112.9	1.47 mm	0.032	0.81	Unshielded	0.413	10.50	Black, White
			1640	500	407.9	185.0	16 AWG						
			3280	1000	815.7	370.0	(19x29) TC						



1-Pair

Tefzel® Insulation • Clear Tefzel® Jacket

300V RMS 80° VW-1	85102		500	152	20.1	9.1	1.47 mm	0.015	0.38	Unshielded	0.211	5.36	Black, White
			1000	305	33.1	15.0	16 AWG (19x29) TC						

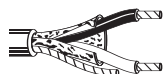


1-Pair

16 AWG • Stranded (19x29) 1.5 mm Tinned Copper • Twisted Pair • Beldfoil® • 18 AWG Tinned Copper Drain Wire

Polyethylene Insulation • Chrome PVC Jacket

300V RMS 80° UL AWM Style 20253	8719	NEC: CM CL2 CEC: CM	U-500	U-152	24.5	11.1	1.47 mm	0.032	0.81	Overall Beldfoil® + Drain Wire (18 AWG TC)	0.313	7.95	Black, Clear
			500	152	24.5	11.1	16 AWG						
			U-1000	U-305	47.2	21.4	(19x29) TC						
			1000	305	49.2	22.3							
			2000	610	100.3	45.5							
5000	1524	245.6	111.4										
10000	3049	431.0	195.5										



1-Pair

TC = Tinned Copper • DCR = DC resistance

Tefzel® is a DuPont trademark.

Industrial Data Solutions® - Industrial Data

Low-Capacitance Computer Cables for EIA RS-485 Applications



De- scription	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Color Code
			ft.	m	lbs.	kg		inch	mm		inch	mm			pF/ft.	pF/m	

24 AWG • Stranded (7x32) 0.6 mm Tinned Copper • Overall Beldfoil® + 90% Tinned Copper Braid • 24 AWG Tinned Copper Drain Wire

Polyethylene Insulation • Chrome PVC Jacket

30V 80°C UL AWM Style 2919	NEC: CM CEC: CM						0.61 mm 24 AWG (7x32) TC	0.068	1.73	Overall Beldfoil® + Overall 90% TC Braid + Drain Wire (24 AWG TC)			120	66%	CDR/CDR CDR/SCR	12.8 23.0	42.0 75.5	see chart 5 (Tech Info Section)
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DMX 512	9841	1-Pair	100	31	4.9	2.2						0.232	5.89						
			500	152	20.1	9.1													
			1000	305	40.1	18.2													
	9842	2-Pair	100	31	5.7	2.6						0.340	8.64						
			500	152	29.5	13.4													
			1000	305	57.1	25.9													
	9843	3-Pair	100	31	7.1	3.2						0.360	9.14						
			500	152	34.6	15.7													
			1000	305	67.2	30.5													
	9844	4-Pair	500	152	43.0	19.5						0.390	9.91						
			1000	305	83.1	37.7													

Polyethylene Insulation • Chrome FRNC/LSNH Jacket

80°C	IEC 332-3C BS 7655						0.61 mm 24 AWG (7x32) TC	0.068	1.73	Overall Beldfoil® + Overall 90% TC Braid + Drain Wire (24 AWG TC)			120	66%	CDR/CDR CDR/SCR	12.8 23.0	42.0 75.5	see chart 5 (Tech Info Section)
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	9841NH	1-Pair	1000	305	38.1	17.3						0.232	5.90						
			1640	500	65.0	29.5													
			3280	1000	124.8	56.6													
	9842NH	2-Pair	1000	305	64.4	29.2						0.341	8.65						
			1640	500	102.7	46.6													
			3280	1000	196.4	89.1													
	9843NH	3-Pair	1000	305	69.0	31.3						0.358	9.10						

Polyethylene Insulation • Chrome FRNC/LSNH Inner Jacket • Steel Wire Armor • Black Sunlight-Resistant FRNC/LSNH Jacket

80°C	IEC 332-3C BS 7655						0.61 mm 24 AWG (7x32) TC	0.068	1.73	Overall Beldfoil® + Overall 90% TC Braid + Drain Wire (24 AWG TC)			120	66%	CDR/CDR CDR/SCR	12.8 23.0	42.0 75.5	see chart 5 (Tech Info Section)
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	9841LS	1-Pair	1000	305	154.1	69.9						*0.232	*5.90						
			1640	500	276.9	125.6							**0.406	**10.30					
			3280	1000	624.3	283.2													
	9842LS	2-Pair	1000	305	195.5	88.7						*0.341	*8.65						
			1640	500	335.1	152.0							**0.516	**13.10					
			3280	1000	648.2	294.0													

TC = Tinned Copper • DCR = DC resistance

Industrial Data Solutions® - Interconnect Cables

Shielded Twisted Pair Cables



De-scription	Part No.	UL NEC / C(UL)/CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Color Code
			ft.	m	lbs.	kg		inch	mm		inch	mm			pF/ft.	pF/m	

24 AWG • Stranded (7x32) 0.6 mm Tinned Copper • Twisted Pair • Beldfoil® • 24 AWG Tinned Copper Drain Wire

Datalene® Insulation • Chrome PVC Jacket																		
300V 60°C	9729	NEC:	100	31	4.4	2.0	0.61 mm	0.061	1.55	Individual Beldfoil® + Drain Wire (24 AWG TC)	0.266	6.76	100	76%	CDR/CDR CDR/SCR	12.5 23.2	41.0 76.1	Red, Black White, Black
UL AWM Style 2493		CM	500	152	20.5	9.3	24 AWG											
		CEC:	1000	305	39.0	17.7	(7x32) TC											
		CM	10000	3049	390.4	177.1												



Z-Fold®

2-Pair

Datalene® Insulation • Black FRNC/LSNH Jacket • Color Coded Foils (Red, Green)

300V 80°C	9729NH	IEC	1000	305	44.1	20.0	0.61 mm	0.061	1.55	Individual Beldfoil® + Drain Wire (24 AWG TC)	0.335	8.50	100	76%	CDR/CDR CDR/SCR	12.5 23.2	41.0 76.1	Red, Black White, Black
		332-3C	1640	500	74.5	33.8	24 AWG											
		BS 7655	3280	1000	137.3	62.3	(7x32) TC											



Z-Fold®

2-Pair

Datalene® Insulation • Chrome FRNC/LSNH Inner Jacket • Steel Wire Armor • Black Sunlight-Resistant FRNC/LSNH Jacket • Color Coded Foils (Red, Green)

300V 80°C	9729LS	IEC	1640	500	347.2	157.5	0.61 mm	0.061	1.55	Individual Beldfoil® + Drain Wire (24 AWG TC)	*0.335 **0.512	*8.50 **13.00	100	76%	CDR/CDR CDR/SCR	12.5 23.2	41.0 76.1	Red, Black White, Black
		332-3C	3280	1000	672.4	305.0	24 AWG											
		BS 7655					(7x32) TC											



Z-Fold®

2-Pair

* Under Armor
** Over Armor

22 AWG • Stranded (7x30) 0.8 mm Tinned Copper • Twisted Pair • Beldfoil® • 22 AWG Tinned Copper Drain Wire

Polypropylene Insulation • Chrome PVC Jacket																			
30V 80°C	8777	NEC:	100	31	4.6	2.1	0.76 mm	0.050	1.27	Individual Beldfoil® + Drain Wire (22 AWG TC)	0.273	6.93	50	66%	CDR/CDR CDR/SCR	30.0 55.0	98.0 180.0	Red, Black White, Black Green, Black	
UL AWM Style 2919		CM	250	76	11.0	5.0	22 AWG												
		CEC:	U-500	U-152	20.9	9.5	(7x30) TC												
		CM	500	152	20.9	9.5													
			U-1000	U-305	41.0	18.6													
			1000	305	42.1	19.1													
			1640	500	67.2	30.5													
			3280	1000	137.8	62.5													
			5000	1524	210.1	95.3													
			10000	3049	450.4	204.3													



Z-Fold®

3-Pair

For Plenum version of 8777, see 88777, 87777 or 82777.

Polypropylene Insulation • Chrome FRNC/LSNH Jacket • Color Coded Foils (Red, Green, Blue)

300V 80°C	8777NH	IEC	1000	305	50.7	23.0	0.76 mm	0.050	1.27	Individual Beldfoil® + Drain Wire (22 AWG TC)	0.276	7.00	50	66%	CDR/CDR CDR/SCR	30.0 55.0	98.4 180.4	Red, Black White, Black Green, Black
		332-3C	1640	500	78.5	35.6	22 AWG											
		BS 7655	3280	1000	151.5	68.7	(7x30) TC											



Z-Fold®

3-Pair

TC = Tinned Copper • DCR = DC resistance

Industrial Data Solutions® - Interconnect Cables

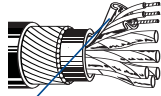
Shielded Twisted Pair Cables



De- scription	Part No.	UL NEC/ C(UL)CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Color Code
			ft.	m	lbs.	kg		inch	mm		inch	mm			pF/ft.	pF/m	

22 AWG • Stranded (7x30) 0.8 mm Tinned Copper • Twisted Pair • Beldfoil® • 22 AWG Tinned Copper Drain Wire

Polyethylene Insulation • Chrome FRNC/LSNH Inner Jacket • Steel Wire Armor • Black Sunlight-Resistant FRNC/LSNH Jacket • Color Coded Foils (Red, Green, Blue)																		
300V 80°C	8777LS	IEC	1640	500	290.3	131.7	0.76 mm	0.050	1.27	Individual Beldfoil® + Drain Wire (22 AWG TC)	*0.276	*7.00	50	66%	CDR/CDR	30.0	98.4	Red, Black
		332-3C	3280	1000	712.5	323.2	22 AWG				**0.425	**10.80			CDR/SCR	55.0	180.4	Green, White
		BS 7655					(7x30) TC											Green, Black



Z-Fold®

3-Pair

* Under Armor
** Over Armor

22 AWG • Stranded (7x30) 0.8 mm Tinned Copper • Twisted Pair • Beldfoil® • 24 AWG Tinned Copper Drain Wire

Polypropylene Insulation • Chrome PVC Jacket																		
300V RMS	8723	NEC:	100	31	2.2	1.0	0.76 mm	0.046	1.17	Individual Beldfoil® + Drain Wire (24 AWG TC)	0.168	4.27	45	66%	CDR/CDR	35.0	115.0	Red, Black
60°C		CM	U-500	U-152	10.6	4.8	22 AWG								CDR/SCR	62.0	203.0	Green, White
		CEC:	500	152	9.9	4.5	(7x30) TC											
		CM	U-1000	U-305	20.1	9.1												
			1000	305	20.1	9.1												
			1640	500	32.8	14.9												
			U-2000	U-610	40.1	18.2												
			2000	610	40.1	18.2												
			3280	1000	65.7	29.8												
			5000	1524	95.0	43.1												
			10000	3049	200.4	90.9												



2-Pair

For Plenum version of 8723, see 88723, 87723 or 82723
Pairs cabled on common axis to reduce diameter.

Polypropylene Insulation • Chrome FRNC/LSNH Jacket																		
300V 80°C	8723NH	IEC	1000	305	23.1	10.5	0.76 mm	0.046	1.17	Individual Beldfoil® + Drain Wire (24 AWG TC)	0.179	4.55	45	66%	CDR/CDR	35.0	114.8	Red, Black
		332-3C	1640	500	36.8	16.7	22 AWG								CDR/SCR	62.0	203.4	Green, White
		BS 7655	3280	1000	75.0	34.0	(7x30) TC											



2-Pair

Pairs cabled on common axis to reduce diameter.

Polypropylene Insulation • Chrome FRNC/LSNH Inner Jacket • Steel Wire Armor • Black Sunlight-Resistant FRNC/LSNH Jacket																		
300V 80°C	8723LS	IEC	1640	500	168.7	76.5	0.76 mm	0.046	1.17	Individual Beldfoil® + Drain Wire (24 AWG TC)	*0.179	*4.55	45	66%	CDR/CDR	35.0	114.8	Red, Black
		332-3C	3280	1000	350.1	158.8	22 AWG				**0.346	**8.80			CDR/SCR	62.0	203.4	Green, White
		BS 7655					(7x30) TC											



2-Pair

* Under Armor
** Over Armor

Plenum • FEP Insulation • Red FEP Jacket																		
300V RMS	88723	NEC:	100	31	3.3	1.5	0.76 mm	0.046	1.17	Individual Beldfoil® + Drain Wire (24 AWG TC)	0.148	3.76	40	69%	CDR/CDR	35.0	115.0	Red, Black
Non-conduit		CMP	500	152	11.0	5.0	22 AWG								CDR/SCR	67.0	220.0	Green, White
		CEC:	1000	305	20.9	9.5	(7x30) TC											
		CMP FT6																



Z-Fold®

2-Pair

TC = Tinned Copper • DCR = DC resistance

Industrial Data Solutions® – Interconnect Cable

Shielded Twisted Pair Cables



De-scription	Part No.	UL NEC / C(UL)/CEC Type IEC	Standard Lengths		Standard Unit Weight		Conductor (Stranding) Diameter Nom. DCR	Nominal Insulation OD		Shielding Material Nom. DCR	Nominal OD		Nom. Imp. (Ω)	Nom. Vel. of Prop.	Nominal Capacitance		Color Code
			ft.	m	lbs.	kg		inch	mm		inch	mm			pF/ft.	pF/m	

18 AWG • Stranded (16x30) 1.2 mm Tinned Copper • Twisted Pair • Beldfoil® • 20 AWG Tinned Copper Drain Wire

Polyethylene Insulation • Chrome PVC Jacket																		
300V 60°C	8760	NEC:	250	76	6.8	3.1	1.2 mm	0.082	2.08	Overall Beldfoil® + Drain Wire (20 AWG TC)	0.222	5.64	-	-	CDR/CDR	24.0	79.0	Black, Clear
UL AWM Style 2092		CM	U-500	U-152	13.0	5.9	18 AWG									CDR/SCR	44.0	
		CEC:	500	152	13.0	5.9	(16x30) TC											
		CM	U-1000	U-305	26.0	11.8												
			1000	305	26.0	11.8												
			2000	610	50.0	22.7												
			5000	1524	135.1	61.3												
			10000	3049	260.1	118.0												



Shorting Fold

1-Pair

For Plenum version of 8760, see 88760, 87760 or 82760.

Polyethylene Insulation • Chrome FRNC/LSNH Jacket																		
300V 80°C	8760NH	IEC	1000	305	34.6	15.7	1.2 mm	0.082	2.08	Overall Beldfoil® + Drain Wire (20 AWG TC)	0.236	6.00	60	66%	CDR/CDR	24.0	78.7	Black, Clear
		332-3C	1640	500	54.2	24.6	18 AWG									CDR/SCR	44.0	
		BS 7655	3280	1000	110.5	50.1	(16x30) TC											



Shorting Fold

1-Pair

Polyethylene Insulation • Chrome FRNC/LSNH Inner Jacket • Steel Wire Armor • Black Sunlight-Resistant FRNC/LSNH Jacket																		
300V 80°C	8760LS	IEC	1640	500	270.1	122.5	1.2 mm	0.082	2.08	Overall Beldfoil® + Drain Wire (20 AWG TC)	*0.236	*6.00	60	66%	CDR/CDR	24.0	78.7	Black, Clear
		332-3C	3280	1000	610.5	276.9	18 AWG				**0.409	**10.40				CDR/SCR	44.0	
		BS 7655					(16x30) TC											



Shorting Fold

1-Pair

* Under Armor
** Over Armor

TC = Tinned Copper • DCR = DC resistance