Belden übertrifft erneut alle Standards

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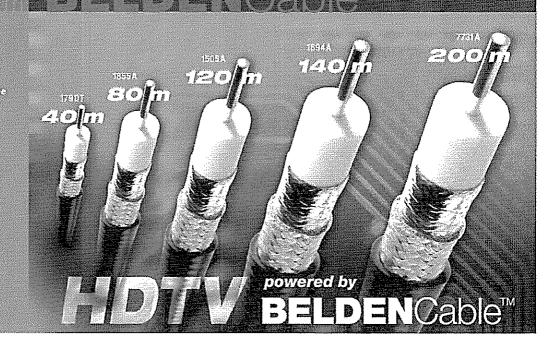
Die **HDTV** Videokabel von Belden haben erneut sämtliche Standards übertroffen. Somit können auch für die neueren Formate wie 1080i & 1080p die selbst seit 10 Jahren im Markt befindlichen Kabel wie das klassische 1694A bis zu 4.5GHz verwendet werden.

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TB E101

Belden GDT

BeldenDableTM exceeds the etandards by delivering installable Performance^{*} and extending sweep testing of Brilliance^{*} Precision video cables to 4.5 GHz, paving the way for 1080F HDTV/SDI format.







BeldenCable[™] exceeds the standards

Brilliance[™] broadcast video coaxes are designed for maximum bandwidth, minimum return loss and minimum attenuation loss. These cables already meet the very tight specifications for electrical properties and are ideally suited for both analog and digital video in broadcast, post-production and other critical video applications.

BeldenCable[™] extends sweep testing to 4.5 GHz

Now Brilliance[™] broadcast video coaxes' performance specifications are extended from

3 GHz to 4.5 GHz. Every reel is sweep tested for return loss and certified to the new, higher frequency. This extension is designed to (re)assure broadcasters, leading edge broadcast equipment manufacturers and the standards bodies that BeldenCable[™] delivers performance and reliability, as they begin to migrate from the existing 1080i (interlaced) HD format to the emerging 1080p (progressive) format, protocols and equipment, which require twice the bandwidth of 1080i.

BeldenCable™ is the first cable manufacturer to perform sweep testing and certification to meet this emerging format.

Requirements for 1088i vs. 1080p line formatting and transmission protocols:

Line Format	Image Resolution	Frames per second	HDTV/SDI Video operating frequenzy	Test frequency
1080î	1920 x 1080 pixels	60 interlaced	0.743 GHz	2.25 GHz
1080p	1920x1080 pixels	60 complete	1.485 GHz	4.5 GHz

2006 sports events will bring HD to Europe

This year is the busiest ever in the international sports arena. Major events include:

- Winter Olympics, Turin
- Commonwealth Games, Melbourne
- Football World Cup, Germany
- Athletics European Cup, Sweden
- Basketball Worldcup, Japan
- Asian Games, Doha

Most of these events will be filmed in High Definition (HD). The upgraded technology will stimulate a growing interest from TV viewers around the world. Once they have seen the clear HD picture – they will not want to go back to lower quality. The 2006 Football World Cup in Germany will bring High Definition to viewers around the world. With every major broadcaster looking to transmit at least one HD feed, this football tournament is set to become the springboard for HD broadcasting worldwide.



Installable Performance[®]

Positive test for Brilliance[™] broadcast video coaxes

An independent test laboratory took an in-depth look at the HD performance of the video coaxes used in TV studios. Cables were tested for return loss, attenuation and maximum cable run on HD (1080l and 720p).

The most popular precision video coaxial cables for HDTV/SDI, Belden Brilliance[™] 179DT, 1855A, 1855ENH, 1505A, 1505F, 1694A and 7731A were subjected to extended testing. In the end results all BeldenCable[™] products delivered performance values that exceeded those listed in Belden's own catalogues:

Maximum Transmission Distance at Serial Digital Data Rates

Data Bate:		libas		Mb//s		Mby/s		Mb/s) Mb/s	1.5 GD/	a section of the sect	a monoranitation has	ज्यसंत्रम	- Charles Charles		90/6
Silect	SMPTE	chiling contraction of the second		BT.601	SMPR	a be been a work on a second be	Breat over a best of shirt to have for	E 269M		1E 344M	SMPTE 2	and a second	Indepe	a stand in the stand	TREAL	Charles and the second second	- <u>1692</u>
Application	th amount of the second s	ie meie	Compo fit	site PAL	Contraction of the local division of the	ant Vitico.		A STOCKED BOOK DOG		n) Witkesernen	HDTV fit			<u>IDIN/</u>			an Hury
IPERANDA 179DT	500	<u>iű)</u> 152	450	137	380	116	<u>ii</u> 340	<u>101</u>	10 280	<u>1 10</u> 85	110	34	132	40	100 +6	<u>(i)</u> 80	24
1855A	980	299	450 950	290	790	241	680	207	560	171	260	79	263	80	+1	150	46
1855ENH	-							~~~~	-		- 8	- *	394	120	-		
1505A	1430	436	1360	415	1110	338	970	296	790	241	310	94	394	120	<u> z</u>	220	67
1505F	1200	366	1071	327	857	261	732	223	588	179	225	69	328	100	+31		-
1694A	1880	573	1710	521	1430	436	1240	378	1010	308	400	122	459	140	÷18	270	82
7731A	2750	838	2480	756	2040	622	1760	536	1430	436		168	656	200	+32	360	110
	more details available SMPTE 292M New Test Results The verdict: BELDENCable™ exceeds the listed values (SMPTE 292M).																
Return Loss H	cadroon		A)	Better	en Fisturn Lo	ss Specific	ation Umr				11 132 263 394	3	40 80 120		·6 ·1 -		
-70		2017	Ty	pical Return	Loss	And a second sec		A Granne			394 328	3	120 100	+	26 31		Ni di serie de la compañía de la com
-00 0 500	1008)	150				630	3509	4000	4500		459	*****	140	. farmer	18		
			Fre	quency (M	HZ)						656	3	200	+	32		
		an be saw like more video state at a state st												G	5		
											y adva eriormai			ger	dist	ances	
	1	8				atoki i ki adila			T	here is	no Equa	l[] 🚥				an a	

For More Information:

Belden CDT Support Germany: +49 (0) 202 24255-0

Detailed Specifications & Technical Data



ENGLISH MEASUREMENT VERSION

1505A Coax - RG-59/U Type



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For more Information please call

1-800-Belden1



Description:

20 AWG solid .032" bare copper conductor, gas-injected foam HDPE insulation, Duofoil® + tinned copper braid shield (95% coverage), PVC jacket.

Physical Characteristics (Overall) Conductor				
AWG:				
# Coax AWG Stranding Conductor Material Dia. (in.)				
1 20 Solid BC - Bare Copper .032				
sulation				
Insulation Material:				
	ia. (in.) 45			
uter Shield Outer Shield Material:				
Layer # Outer Shield Trade Name Type Outer Shield M	Naterial	Coverage (%)		
	Polyester Tape-Aluminum Foil			
2 Braid TC - Tinned Co	opper	95		
uter Jacket				
Outer Jacket Material:				
Outer Jacket Material PVC - Polyvinyl Chloride				
verall Cabling	0.000 in			
Overall Nominal Diameter:	0.233 in.			
echanical Characteristics (Overall)				
Operating Temperature Range:	-30°C To +75°C			
UL Temperature Rating:	75°C			
Bulk Cable Weight:	31 lbs/1000 ft.			
Max. Recommended Pulling Tension:	47 lbs.			
Min. Bend Radius (Install)/Minor Axis:	2.500 in.			
oplicable Specifications and Agency Com	nliance (Overall)			
pplicable Standards & Environmental Program				
NEC/(UL) Specification:	CMR			
CEC/C(UL) Specification:	CMG		 	
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):	01/01/2005			
EU Directive 2002/96/EC (WEEE):	Yes			
······································	-			

Detailed Specifications & Technical Data

ENGLISH MEASUREMENT VERSION

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143.000

2.800



1505A Coax - RG-59/U Type

	ective 2003/11/EC (BFR):	Yes
	p 65 (CJ for Wire & Cable):	Yes
MII Ord	er #39 (China RoHS):	Yes
RG Typ	e:	59/U
lame Tes	t	
UL Flan	ne Test:	UL1666 Vertical Shaft
Suitability		
	lity - Indoor:	Yes
	lity - Outdoor:	Yes - Black only
	lity - Aerial:	Yes - Black only, when supported by a messenger wire
	on-Plenum	No
Plenum		No
Plenum	Number:	1506A
lectrical	Characteristics (Overall)	
	cteristic Impedance:	
Impedanc	e (Ohm)	
75		
Nom. Induc	tance:	
Inductanc	e (µH/ft)	
0.107		
Capacitan 16.3	citance Conductor to Shield: ice (pF/ft)	
Nominal Ve VP (%) 83	locity of Propagation:	
Nominal De	lav:	
Delay (ns/		
1.22		
Nom. Cond	 uctor DC Resistance:	
	°C (Ohm/1000 ft)	
10.0		
Nominal Ou	Iter Shield DC Resistance:	
	°C (Ohm/1000 ft)	
3.8		
Nom. Atten	uation:	
Freq. (MH	z) Attenuation (dB/100 ft.)	
1.000	0.300	
3.600	0.600	
5.000	0.630	
6.000	0.690	
7.000	0.740	
10.000	0.900	
12.000	0.910	
25.000	1.300	
67.500	2.050	
71.500 88.500	2.100	
88.500	2.200	
135.000	2.700	
143 000	2.700	

ENGLISH MEASUREMENT VERSION



1505A Coax - RG-59/U Type

180.000	3.100
270.000	3.800
360.000	4.400
540.000	5.500
720.000	6.400
750.000	6.500
1000.000	7.600
1500.000	9.300
2000.000	10.900
3000.000	13.400
2250.000	11.600
4500.000	16.400

Max. Operating Voltage - UL:

Voltage

300 V RMS

Other Electrical Characteristic 1:

eristic 1:	Impedance tested in accordance with ASTM D-4566 paragraph 43.2, option 2 using a 75 Ohm fixed bridge and termination. 75 +/- 1.5 Ohms

Other Electrical Characteristic 2:

Return Loss tested in accordance with ASTM D-4566 paragraph 45.3, using a 75 Ohm fixed bridge and termination.

Minimum Return Loss:

Start Freq. (MHz)	Stop Freq. (MHz)	Min. RL (dB)
5	1600	23
1600	4500	21

Sweep Test

Sweep Testing:

100% Sweep tested 5 MHz to 4.5 GHz.

Misc. Information (Overall)

Notes (Overall)

Notes: Also available in bundled versions. See 7794A through 7798A.

Put Ups and Colors:

ltem #	Putup	Ship Weight	Color	Notes	Item Desc
1505A N3U1000	1,000 FT	35.000 LB	GREEN, MIL	С	#20 PE/GIFHDPE SH FR PVC
1505A N3U5000	5,000 FT	165.000 LB	GREEN, MIL	CN	#20 PE/GIFHDPE SH FR PVC
1505A 0011000	1,000 FT	35.000 LB	BROWN	С	#20 PE/GIFHDPE SH FR PVC
1505A 0015000	5,000 FT	165.000 LB	BROWN	CN	#20 PE/GIFHDPE SH FR PVC
1505A 0021000	1,000 FT	35.000 LB	RED	С	#20 PE/GIFHDPE SH FR PVC
1505A 002500	500 FT	15.500 LB	RED	С	#20 PE/GIFHDPE SH FR PVC
1505A 0025000	5,000 FT	165.000 LB	ORANGE	CN	#20 PE/GIFHDPE SH FR PVC
1505A 0031000	1,000 FT	35.000 LB	ORANGE	С	#20 PE/GIFHDPE SH FR PVC
1505A 0035000	5,000 FT	165.000 LB	ORANGE	C N	#20 PE/GIFHDPE SH FR PVC
1505A 0041000	1,000 FT	35.000 LB	YELLOW	С	#20 PE/GIFHDPE SH FR PVC
1505A 0045000	5,000 FT	165.000 LB	YELLOW	CN	#20 PE/GIFHDPE SH FR PVC
1505A 0061000	1,000 FT	35.000 LB	BLUE, LIGHT	С	#20 PE/GIFHDPE SH FR PVC
1505A 006500	500 FT	15.500 LB	BLUE, LIGHT	С	#20 PE/GIFHDPE SH FR PVC
1505A 0065000	5,000 FT	165.000 LB	BLUE, LIGHT	CN	#20 PE/GIFHDPE SH FR PVC
1505A 0071000	1,000 FT	35.000 LB	VIOLET	С	#20 PE/GIFHDPE SH FR PVC
1505A 0075000	5,000 FT	165.000 LB	VIOLET	CN	#20 PE/GIFHDPE SH FR PVC
1505A 0081000	1,000 FT	35.000 LB	GRAY	С	#20 PE/GIFHDPE SH FR PVC
1505A 0085000	5,000 FT	165.000 LB	GRAY	CN	#20 PE/GIFHDPE SH FR PVC
1505A 0091000	1,000 FT	35.000 LB	WHITE	С	#20 PE/GIFHDPE SH FR PVC
1505A 0095000	5,000 FT	165.000 LB	WHITE	CN	#20 PE/GIFHDPE SH FR PVC
1505A 0101000	1,000 FT	35.000 LB	BLACK	С	#20 PE/GIFHDPE SH FR PVC
1505A 010500	500 FT	15.500 LB	BLACK	С	#20 PE/GIFHDPE SH FR PVC
1505A 0105000	5,000 FT	165.000 LB	BLACK	CN	#20 PE/GIFHDPE SH FR PVC

Notes:

ENGLISH MEASUREMENT VERSION



C = CRATE REEL PUT-UP

N = FINAL PUT-UP LENGTH MAY VARY -0% TO +10% FROM LENGTH SHOWN.

Revision Number: 6 Revision Date: 09-30-2009

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