



# ADC

ADVANCED DIGITAL CABLE INC.

## TRAFFIC SIGNAL

WIRE & CABLE CATALOG





# GO... with the Leader!

***Advanced Digital Cable is the manufacturing leader of cable  
for the traffic industry***

*ADC is a proud Sustaining Member of the IMSA organization and is the largest manufacturer in North America of IMSA cables. No other manufacturer produces a wider range of cables for loops, signals, cameras, preemption and street lighting systems to meet IMSA, State and other Municipality specifications. Other manufacturers attempt to imitate but none can replicate the ADC offering, quality or commitment to the industry.*

*ADC was built from the ground up with progressive and innovative technology. Our people represent over 400 years of wire and cable experience promising an unsurpassed dedication to developing and manufacturing the highest quality products in the industry. We proudly manufacture all of our products in the United States. As such, these products comply with Section 1605 of the American Recovery and Reinvestment Act of 2009.*

*While other manufacturers are reducing their product offering and shutting down capacity, we continue to expand our capacity, capabilities and products to meet the needs of the ever-emerging traffic industry.*



Sustaining Member



94 Eagle Fork Rd. • Hayesville, N.C. 28904  
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ADC offers many other types of IMSA Spec Cables, including Interconnect, Messenger and various State Specific Constructions. Please consult factory for specifications, lead times and manufacturing minimums.

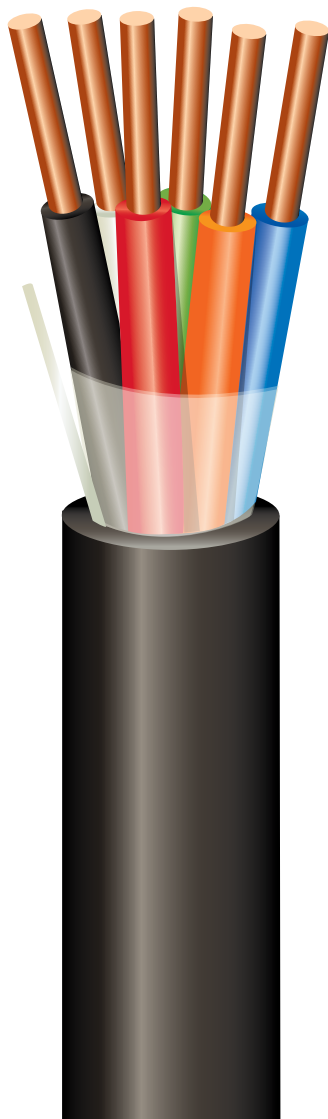
### DISCLAIMER

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# SIGNAL CABLE

## IMSA Spec 19-1 • Solid Conductor



### Cable Identification

Indent print on jacket  
 “ADVANCED DIGITAL CABLE,  
 INC. IMSA 19-1 YYYY\* 600V”  
 \*replace YYYY with year of manufacture

Inkjet print on reverse side of  
 jacket with footage markers.

Specifications		Color Code	Put-Ups
<b>Conductor</b> - Solid Bare Copper per ASTM B-3 <b>Insulation</b> 14 AWG - .025" (.635mm) PE 12 AWG - .030" (.762mm) PE	<b>Jacket</b> - PVC <b>Voltage Rating</b> - 600 V <b>Temp. Rating</b> - 75°C	Per Specification, See Color Code Tables on Page 15.	Standard Reels 2,500' and 5,000' <i>Other lengths available. Please                      consult your factory represen-                      tative for availability.</i>

PART NO.	NO. OF COND	OUTER JKT THICKNESS		NOMINAL O.D.		WEIGHT lbs. / 1M'
		INCH	mm	INCH	mm	
<b>14 AWG</b>						
8002	2	.045	1.143	.322	8.18	58
8003	3	.045	1.143	.339	8.61	75
8004	4	.045	1.143	.369	9.37	94
8005	5	.045	1.143	.402	10.21	113
8007	7	.045	1.143	.435	11.05	146
8009	9	.060	1.524	.538	13.67	186
8010	10	.060	1.524	.580	14.73	220
8012	12	.060	1.524	.597	15.16	254
8014	14	.060	1.524	.626	15.90	325
8015	15	.060	1.524	.660	16.76	311
8016	16	.060	1.524	.660	16.76	325
8019	19	.060	1.524	.694	17.63	375
8020	20	.060	1.524	.729	18.52	395
8021	21	.060	1.524	.729	18.52	413
8025	25	.060	1.524	.808	20.52	478
8026	26	.060	1.524	.808	20.52	501
<b>12 AWG</b>						
8402	2	.045	1.143	.376	9.55	58
8403	3	.045	1.143	.397	10.08	75
8404	4	.045	1.143	.434	11.02	94
8405	5	.045	1.143	.475	12.07	113
8407	7	.045	1.143	.514	13.06	146
8409	9	.060	1.524	.634	16.10	186
8410	10	.060	1.524	.688	17.48	220
8412	12	.060	1.524	.709	18.01	254
8416	16	.060	1.524	.787	19.99	325
8419	19	.060	1.524	.829	21.06	395
8420	20	.080	2.03	.913	23.19	631
8421	21	.080	2.03	.913	23.19	652
8425	25	.080	2.03	1.010	25.65	760

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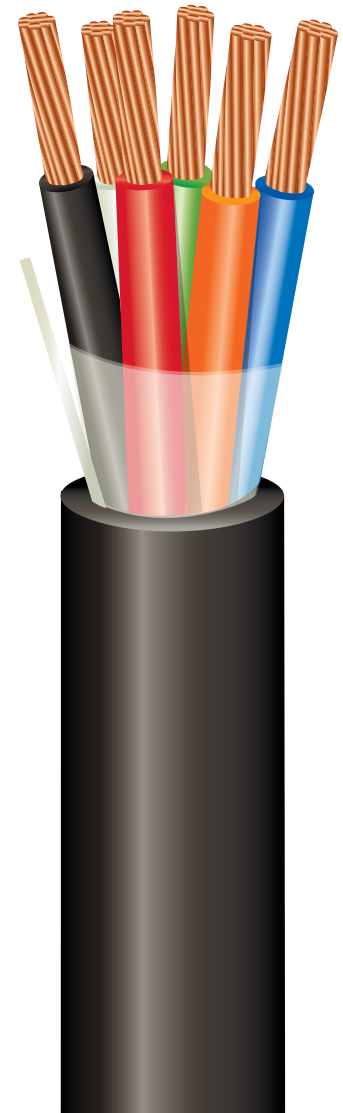


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Specifications		Color Code	Put-Ups
<b>Conductor</b> - Stranded Bare Copper per ASTM B-3, B-8 <b>Insulation</b> 16 AWG - .025" (.635mm) PE 14 AWG - .025" (.635mm) PE 12 AWG - .030" (.762mm) PE	<b>Jacket</b> - PVC <b>Voltage Rating</b> - 600 V <b>Temp. Rating</b> - 75°C	Per Specification, See Color Code Tables on Page 15.	Standard Reels 2,500' and 5,000' <i>Other lengths available. Please consult your factory representative for availability.</i>

PART NO.	NO. OF COND	OUTER JKT THICKNESS		NOMINAL O.D.		WEIGHT lbs. / 1M'
		INCH	mm	INCH	mm	
<b>16 AWG</b>						
8162	2	.045	1.143	.310	7.88	45
8163	3	.045	1.143	.326	8.28	56
8164	4	.045	1.143	.354	8.99	73
8165	5	.045	1.143	.386	9.80	87
8167	7	.045	1.143	.417	10.59	108
8169	9	.060	1.524	.497	12.62	147
81610	10	.060	1.524	.517	13.13	160
81612	12	.060	1.524	.554	14.07	195
81616	16	.060	1.524	.620	15.75	235
81620	20	.060	1.524	.678	17.22	284
<b>14 AWG</b>						
8102	2	.045	1.143	.340	8.64	58
8103	3	.045	1.143	.358	9.09	76
8104	4	.045	1.143	.390	9.91	94
8105	5	.045	1.143	.428	10.87	113
8107	7	.045	1.143	.465	11.81	148
8109	9	.060	1.524	.570	14.48	203
8110	10	.060	1.524	.612	15.55	224
8112	12	.060	1.524	.612	15.55	256
8114	14	.060	1.524	.666	16.92	293
8115	15	.060	1.524	.702	17.83	315
8116	16	.060	1.524	.702	17.83	332
8119	19	.060	1.524	.739	18.77	383
8120	20	.060	1.524	.771	19.58	403
8121	21	.060	1.524	.777	19.74	419
8125	25	.060	1.524	.911	23.14	529
8126	26	.060	1.524	.991	25.17	544
<b>12 AWG</b>						
8502	2	.045	1.143	.398	10.11	84
8503	3	.045	1.143	.421	10.69	111
8504	4	.045	1.143	.464	11.79	139
8505	5	.045	1.143	.506	12.85	168
8507	7	.045	1.143	.582	14.78	242
8509	9	.060	1.524	.674	17.12	304
8510	10	.060	1.524	.674	17.12	321
8512	12	.060	1.524	.755	19.18	402
8516	16	.060	1.524	.878	22.30	535
8519	19	.060	1.524	.930	23.62	623
8520	20	.080	2.03	.951	24.16	652
8521	21	.080	2.03	.971	24.66	682
8525	25	.080	2.03	1.044	25.52	798



### Cable Identification

Indent print on jacket  
 "ADVANCED DIGITAL CABLE,  
 INC. IMSA 19-1 YYYY\* 600V"  
*\*replace YYYY with year of manufacture*

Inkjet print on reverse side of  
 jacket with footage markers.

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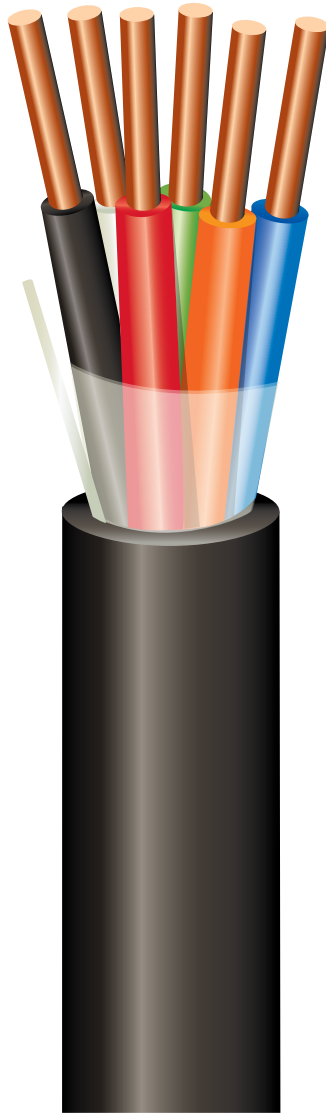
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# SIGNAL CABLE

## IMSA Spec 20-1 • Solid Conductor



### Cable Identification

Indent print on jacket  
 “ADVANCED DIGITAL CABLE,  
 INC. IMSA 20-1 YYYY\* 600V”  
 \*replace YYYY with year of manufacture

Inkjet print on reverse side of  
 jacket with footage markers.

Specifications		Color Code	Put-Ups
<b>Conductor</b> - Solid Bare Copper per ASTM B-3 <b>Insulation</b> 14 AWG - .025" (.635mm) PE 12 AWG - .030" (.762mm) PE	<b>Jacket</b> - PE <b>Voltage Rating</b> - 600 V <b>Temp. Rating</b> - 75°C	Per Specification, See Color Code Tables on Page 15.	Standard Reels 2,500' and 5,000' <i>Other lengths available. Please                      consult your factory representa-                      tive for availability.</i>

PART NO.	NO. OF COND	OUTER JKT THICKNESS		NOMINAL O.D.		WEIGHT lbs. / 1M'
		INCH	mm	INCH	mm	
<b>14 AWG</b>						
8202	2	.045	1.143	.322	8.18	58
8203	3	.045	1.143	.339	8.61	75
8204	4	.045	1.143	.369	9.37	94
8205	5	.045	1.143	.402	10.21	113
8207	7	.045	1.143	.435	11.05	146
8209	9	.060	1.524	.538	13.67	186
8210	10	.060	1.524	.580	14.73	220
8212	12	.060	1.524	.597	15.16	254
8214	14	.060	1.524	.626	15.90	325
8215	15	.060	1.524	.660	16.76	311
8216	16	.060	1.524	.660	16.76	325
8219	19	.060	1.524	.694	17.63	375
8220	20	.060	1.524	.729	18.52	395
8221	21	.060	1.524	.729	18.52	413
8225	25	.060	1.524	.808	20.52	478
8226	26	.060	1.524	.808	20.52	501
<b>12 AWG</b>						
8602	2	.045	1.143	.376	9.55	58
8603	3	.045	1.143	.397	10.08	75
8604	4	.045	1.143	.434	11.02	94
8605	5	.045	1.143	.475	12.07	113
8607	7	.045	1.143	.514	13.06	146
8609	9	.060	1.524	.634	16.10	186
8610	10	.060	1.524	.688	17.48	220
8612	12	.060	1.524	.709	18.01	254
8616	16	.060	1.524	.787	19.99	325
8619	19	.060	1.524	.829	21.06	395
8620	20	.080	2.03	.913	23.19	631
8621	21	.080	2.03	.913	23.19	652
8625	25	.080	2.03	1.010	25.65	760

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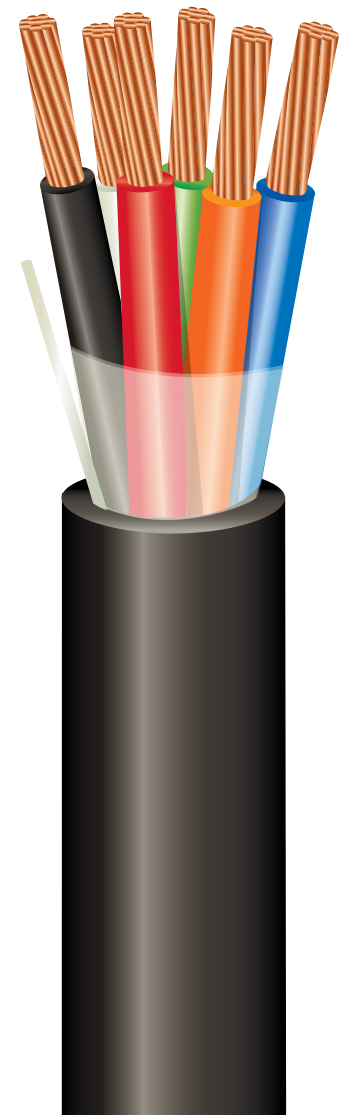
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Specifications		Color Code	Put-Ups
<b>Conductor</b> - Stranded Bare Copper per ASTM B-3, B-8 <b>Insulation</b> 16 AWG - .025" (.635mm) PE 14 AWG - .025" (.635mm) PE 12 AWG - .030" (.762mm) PE	<b>Jacket</b> - PE <b>Voltage Rating</b> - 600 V <b>Temp. Rating</b> - 75°C	Per Specification, See Color Code Tables on Page 15.	Standard Reels 2,500' and 5,000' <i>Other lengths available. Please consult your factory representative for availability.</i>

PART NO.	NO. OF COND	OUTER JKT THICKNESS		NOMINAL O.D.		WEIGHT lbs. / 1M'
		INCH	mm	INCH	mm	
<b>16 AWG</b>						
8362	2	.045	1.143	.310	7.88	45
8363	3	.045	1.143	.326	8.28	56
8364	4	.045	1.143	.354	8.99	73
8365	5	.045	1.143	.386	9.80	87
8367	7	.045	1.143	.417	10.59	108
8369	9	.060	1.524	.497	12.62	147
83610	10	.060	1.524	.517	13.13	160
83612	12	.060	1.524	.554	14.07	195
83616	16	.060	1.524	.620	15.75	235
83620	20	.060	1.524	.678	17.22	284
<b>14 AWG</b>						
8302	2	.045	1.143	.340	8.64	58
8303	3	.045	1.143	.358	9.09	76
8304	4	.045	1.143	.390	9.91	94
8305	5	.045	1.143	.428	10.87	113
8307	7	.045	1.143	.465	11.81	148
8309	9	.060	1.524	.570	14.48	203
8310	10	.060	1.524	.612	15.55	224
8312	12	.060	1.524	.612	15.55	256
8314	14	.060	1.524	.666	16.92	293
8315	15	.060	1.524	.702	17.83	315
8316	16	.060	1.524	.702	17.83	332
8319	19	.060	1.524	.739	18.77	383
8320	20	.060	1.524	.771	19.58	403
8321	21	.060	1.524	.777	19.74	419
8325	25	.060	1.524	.911	23.14	529
8326	26	.060	1.524	.991	25.17	544
<b>12 AWG</b>						
8702	2	.045	1.143	.398	10.11	84
8703	3	.045	1.143	.421	10.69	111
8704	4	.045	1.143	.464	11.79	139
8705	5	.045	1.143	.506	12.85	168
8707	7	.045	1.143	.582	14.78	242
8709	9	.060	1.524	.674	17.12	304
8710	10	.060	1.524	.674	17.12	321
8712	12	.060	1.524	.755	19.18	402
8716	16	.060	1.524	.878	22.30	535
8719	19	.060	1.524	.930	23.62	623
8720	20	.080	2.03	.951	24.16	652
8721	21	.080	2.03	.971	24.66	682
8725	25	.080	2.03	1.044	25.52	798



### Cable Identification

Indent print on jacket  
 "ADVANCED DIGITAL CABLE,  
 INC. IMSA 20-1 YYYY\* 600V"  
*\*replace YYYY with year of manufacture*

Inkjet print on reverse side of jacket with footage markers.

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# LOOP DETECTOR WIRE

## IMSA Specification 51-1 Loop Detector Cable



### Cable Identification

Inkjet print on jacket  
 "ADVANCED DIGITAL CABLE  
 INC. YYYY IMSA 51-1 TYPE  
 600V"

\*replace YYYY with year of manufacture

Specifications		Color Code	Put-Ups
<b>Conductor</b> - Stranded Bare Copper per ASTM B-3, B-8	<b>Insulation</b> - PVC/Nylon 14 AWG - .016" PVC + .05" Nylon 12 AWG - .016" PVC + .05" Nylon	Black <i>Other colors available upon request.</i>	Standard Reels 1,000', 2,500', 5,000' <i>Other lengths available. Please consult your factory representative for availability.</i>

PART NO.	AWG	OUTER JKT THICKNESS		NOMINAL O.D.		WEIGHT lbs. / 1M'
		INCH	mm	INCH	mm	
8452	14	.026	.660	.115	2.92	16
8454	12	.026	.660	.135	3.43	24

## IMSA Specification 51-3 Loop Detector Cable



### Cable Identification

Inkjet print on jacket  
 "ADVANCED DIGITAL CABLE  
 INC. XX AWG IMSA 51-  
 3 YYYY 600V (UL) TYPE  
 XHHW E218985"

\*replace XX with the AWG size

\*replace YYYY with year of manufacture

Specifications		Color Code	Put-Ups
<b>Conductor</b> - Stranded Bare Copper per ASTM B-3, B-8	<b>Insulation</b> 14 AWG - .030" XLPE 12 AWG - .030" XLPE	Black <i>Other colors available upon request.</i>	Standard Reels 1,000', 2,500', 5,000' <i>Other lengths available. Please consult your factory representative for availability.</i>

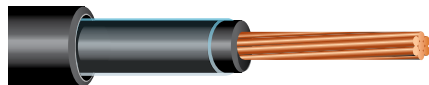
PART NO.	AWG	OUTER JKT THICKNESS		NOMINAL O.D.		WEIGHT lbs. / 1M'
		INCH	mm	INCH	mm	
8465	14	.030	.762	.133	3.38	17
8464	12	.030	.762	.150	3.81	26

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# TUBE LOOP DETECTOR CABLE

## IMSA Specification 51-5 Tube Loop Detector Cable



### Cable Identification

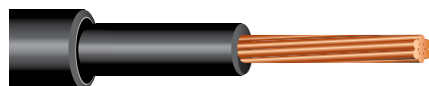
Inkjet print on jacket  
 "ADVANCED DIGITAL CABLE,  
 INC. YYYY IMSA 51-5  
 600V"

\*replace YYYY with year of manufacture

Specifications		Color Code	Put-Ups
<b>Conductor</b> - Stranded Bare Copper per ASTM B-3, B-8	<b>Insulation</b> - PVC/Nylon 14 AWG - .015" + .05 Nylon 12 AWG - .015" + .05 Nylon	Black, Orange <i>Other colors available upon request.</i>	Standard Reels 1,000', 2,500', 5,000' <i>Other lengths available. Please consult your factory representative for availability.</i>
<b>Voltage Rating</b> - 600 V <b>Temp. Rating</b> - 75°C	<b>Jacket</b> - PVC or HDPE 14 AWG - .030" 12 AWG - .030"		

PART NO.	AWG	OUTER JKT THICKNESS		NOMINAL O.D.		WEIGHT lbs. / 1M'
		INCH	mm	INCH	mm	
<b>PVC</b>						
8450	14	.030	.762	.250	6.35	30
8480	12	.030	.762	.250	6.35	36
<b>HDPE</b>						
8450PE	14	.030	.762	.250	6.35	22
8480PE	12	.030	.762	.250	6.35	29

## IMSA Specification 51-7 Tube Loop Detector Cable



### Cable Identification

Inkjet print on jacket  
 "ADVANCED DIGITAL CABLE,  
 INC. YYYY IMSA 51-7 600V"

\*replace YYYY with year of manufacture

Specifications		Color Code	Put-Ups
<b>Conductor</b> - Stranded Bare Copper per ASTM B-3, B-8	<b>Insulation</b> - XLPE 14 AWG - .030" 12 AWG - .030"	Black, Orange <i>Other colors available upon request.</i>	Standard Reels 1,000', 2,500', 5,000' <i>Other lengths available. Please consult your factory representative for availability.</i>
<b>Voltage Rating</b> - 600 V <b>Temp. Rating</b> - 75°C	<b>Jacket</b> - PVC or HDPE 14 AWG - .030" 12 AWG - .030"		

PART NO.	AWG	OUTER JKT THICKNESS		NOMINAL O.D.		WEIGHT lbs. / 1M'
		INCH	mm	INCH	mm	
<b>PVC</b>						
8460XL	14	.030	.762	.191	4.85	31
8470XL	12	.030	.762	.213	5.33	36
<b>HDPE</b>						
8460XLP	14	.030	.762	.191	4.85	26
8470XLP	12	.030	.762	.213	5.33	31

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# LOOP LEAD-IN CABLE

## IMSA Specification 50-2 Loop Lead-In Cable



### Cable Identification

Marker tape under jacket  
 "ADVANCED DIGITAL CABLE  
 YYYY IMSA 50-2 600V"  
 \*replace YYYY with year of manufacture

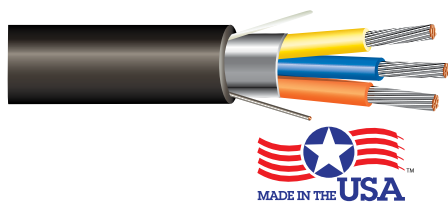
Specifications		Color Code	Put-Ups
<b>Conductor</b> - Stranded Tinned Copper per ASTM B-8, B-33 <b>Insulation</b> - 18 AWG - .030" PE 16 AWG - .030" PE 14 AWG - .030" PE 12 AWG - .030" PE	<b>Shielding</b> - Aluminum <b>Jacket</b> - Polyethylene <b>Voltage Rating</b> - 600 V <b>Temp. Rating</b> - 75°C	Clear/Black (1 Pair Types)  See Color Code Tables on Page 15 for Multi-Pair Cables	Standard Reels 1,000', 2,500', 5,000' Other lengths available. Please consult your factory represen- tative for availability.

PART NO.	AWG	NO. OF PAIRS	OUTER JKT THICKNESS		NOMINAL O.D.		WEIGHT lbs. / 1M'
			INCH	mm	INCH	mm	
<b>18 AWG</b>							
8740	18	1	.030	.762	.286	7.26	29
8742A	18	2	.030	.762	.322	8.19	54
8743A	18	3	.030	.762	.465	11.81	78
<b>16 AWG</b>							
8750	16	1	.030	.762	.292	7.42	38
<b>14 AWG</b>							
8780	14	1	.030	.762	.332	8.43	55
8782A	14	2	.030	.762	.400	10.16	102
8783A	14	3	.030	.762	.566	14.38	120
8784A	14	4	.030	.762	.584	14.83	171
<b>12 AWG</b>							
8790	12	1	.030	.762	.356	9.04	75

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# VEHICLE DETECTION CABLE

## Emergency Vehicle Preemption Cable



Specifications		Color Code	Put-Ups
<b>Conductor</b> - Stranded Tinned Copper per ASTM B-8, B-33 <b>Insulation Thickness</b> 20 AWG - .025" (.635mm) LDPE	<b>Shield</b> - Aluminum w/drain <b>Jacket</b> - Black PVC <b>Voltage Rating</b> - 600 V <b>Temp. Rating</b> - 75°C	Yellow, Blue, Orange	Standard Reels 1,000', 2,500', 5,000' <i>Other lengths available. Please consult your factory representative for availability.</i>

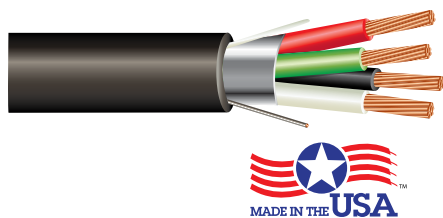
### Cable Identification

Inkjet print on jacket  
 "ADVANCED DIGITAL CABLE, INC. "YYYY" 20 AWG 3C 90C 600V - DIR BUR - UV RES - INSULATION RATED 75C MADE IN USA"

\*replace YYYY with year of manufacture

PART NO.	AWG/ CONDUCTORS	OUTER JKT THICKNESS		NOMINAL O.D.		WEIGHT lbs. / 1M'
		INCH	mm	INCH	mm	
32003HSD	20/3	.045	1.143	.281	7.137	46

## Traffic Sensing System Cable



Specifications		Color Code	Put-Ups
<b>Conductor</b> - Stranded Bare Copper per ASTM B-3, B-8 <b>Insulation</b> 18 AWG - .012" (.305mm) PE <b>Shielding</b> - Aluminum and/or Waterblocking Tape <b>Jacket</b> - Black PE	<b>Voltage Rating</b> - 600 V <b>Temp. Rating</b> - 80°C <b>Capacitance</b> 27 pF/ft diagonal pairs 30 pF/ft adjacent pairs <b>Inductance</b> 23 µH/100 ft diagonal pairs	Black, Red, White, Green	Standard Reels 1,000', 2,500', 5,000' <i>Other lengths available. Please consult your factory representative for availability.</i>

### Cable Identification

Inkjet print on jacket  
 "ADVANCED DIGITAL CABLE, INC. 18 AWG 4C 600V FOR DIRECT BURIAL MADE IN THE USA"

PART NO.	AWG/ CONDUCTORS	OUTER JKT THICKNESS		NOMINAL O.D.		WEIGHT lbs. / 1M'
		INCH	mm	INCH	mm	
<b>UNSHIELDED</b>						
8384HWB	18/4	.032	.813	.246	6.25	35
<b>SHIELDED</b>						
8384PWB	18/4	.032	.813	.241	6.12	37

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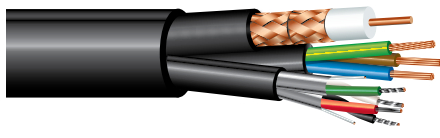
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Rev 062618



# VIDEO DETECTION CABLE

## Composite Camera Cable



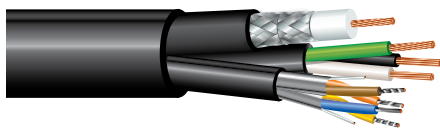
### Cable Identification

Inkjet print on jacket  
 "ADVANCED DIGITAL CABLE,  
 INC. 20 AWG PE Coax + 22  
 AWG 2 PR IND SHLD PP + 18  
 AWG 3 CDR PVC - PVC SUN  
 RES/DIR BUR"

Specifications Coax	Specifications Multi-Conductors	Put-Ups
<b>Conductor</b> - 20 AWG Sol BC .032 <b>Braid</b> - 2x95% BC <b>Jacket</b> - LDPE .304 Nominal	<b>Component 1</b> - 18 AWG/3c BC <b>Insulation</b> - PVC .082 Nominal <b>Color Code</b> - Blue, Brown, Green w/Yellow Stripe  <b>Component 2</b> - 22 AWG/2 ISP TC <b>Insulation</b> - Polypropylene .046 Nominal <b>Shielding</b> - Aluminum Mylar with drain <b>Color Code</b> - Black/Red, Green/White	Standard Reels 1,000', 2,500', 5,000' <i>Other lengths available. Please consult your factory representative for availability.</i>

PART NO.	COMPONENTS	OUTER JKT THICKNESS		NOMINAL O.D.		WEIGHT lbs. / 1M'
		INCH	mm	INCH	mm	
9928	3	.020 PVC	.508 PVC	.340 x .680	8.6 x 17.27	113

## Composite Camera Cable - Hi Flex



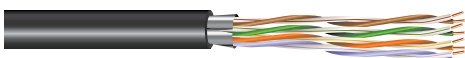
### Cable Identification

Inkjet print on jacket  
 "ADVANCED DIGITAL CABLE,  
 INC. 22 AWG PVC Coax + 22  
 AWG 2 PR IND SHLD PP + 18  
 AWG 3 CDR PVC - PVC SUN  
 RES/DIR BUR"

Specifications Coax	Specifications Multi-Conductors	Put-Ups
<b>Conductor</b> - 22 AWG Strd BC .031 <b>Braid</b> - 2x98% TC <b>Jacket</b> - PVC .304 Nominal	<b>Component 1</b> - 18 AWG/3c BC <b>Insulation</b> - PVC .082 Nominal <b>Color Code</b> - Black, White, Green  <b>Component 2</b> - 22 AWG/2 ISP TC <b>Insulation</b> - Polypropylene .046 Nominal <b>Shielding</b> - Aluminum Mylar with drain <b>Color Code</b> - Brown/Orange, Blue/Yellow	Standard Reels 1,000', 2,500', 5,000' <i>Other lengths available. Please consult your factory representative for availability.</i>

PART NO.	COMPONENTS	OUTER JKT THICKNESS		NOMINAL O.D.		WEIGHT lbs. / 1M'
		INCH	mm	INCH	mm	
9928F	3	.020 PVC	.508 PVC	.344 x .688	8.74 x 17.47	113

## Category Cable 5E - Direct Burial



### Cable Identification

Ink jet print on jacket  
 "ADVANCED DIGITAL CABLE,  
 INC. CATEGORY 5E SHIELD-  
 ED (ETL) TYPE CMR OR  
 CL2R 3054355 FOR DIRECT  
 BURIAL"

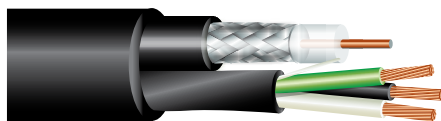
Specifications	Put-Ups
<b>Conductor</b> - 24 AWG SOL BC <b>Insulation</b> - Polyethylene <b>Jacket</b> - Sunlight Resistant and Direct Burial PVC	<b>Color Code</b> White/Blue Stripe & Blue White/Orange Stripe & Orange White/Green Stripe & Green White/Brown Stripe & Brown

PART NO.	PAIRS	OUTER JKT THICKNESS		NOMINAL O.D.		WEIGHT lbs. / 1M'
		INCH	mm	INCH	mm	
53424SD	4	.032	.813	.222	5.64	17

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## Composite Camera Cable



### Cable Identification

Inkjet print on jacket  
 "ADVANCED DIGITAL CABLE,  
 INC. 16-3C W/PRECISION  
 VIDEO SUN RES DIR BUR  
 MADE IN THE USA"

Specifications Coax	Specifications Multi-Conductors	Put-Ups
<b>Conductor</b> - 20 AWG Sol BC .032 <b>Braid</b> - 2 x 98% TC <b>Jacket</b> - LDPE .304 Nominal	<b>Component 1</b> - 16 AWG/3c BC <b>Insulation</b> - PVC .030 Nominal <b>Jacket</b> - PVC .030 Nominal <b>Color Code</b> - Black, White, Green	Standard Reels 1,000', 2,500', 5,000' <i>Other lengths available. Please consult your factory representative for availability.</i>

PART NO.	Components	OUTER JKT THICKNESS		NOMINAL OD		WEIGHT lbs. / 1M'
		INCH	mm	INCH	mm	
99163SFX	2	.030 PVC	.762 PVC	.395 x .700	10.03 x 17.78	143

## Composite Camera Cable



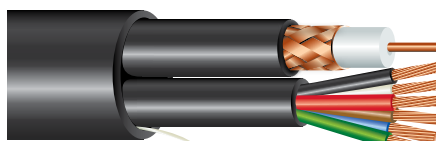
### Cable Identification

Inkjet print on jacket  
 "ADVANCED DIGITAL CABLE,  
 INC. RG 59/U + 18/5"

Specifications Coax	Specifications Multi-Conductors	Put-Ups
<b>Conductor</b> - 20 AWG Sol BC .032 <b>Braid</b> - 95% BC <b>Jacket</b> - PVC .224 Nominal	<b>Component 1</b> - 18 AWG/5c BC <b>Insulation</b> - PVC (PVC Nylon 600V Version Available Upon Request) <b>Color Code</b> - White, Black, Red, Brown, Blue	Standard Reels 1,000', 2,500', 5,000' <i>Other lengths available. Please consult your factory representative for availability.</i>

PART NO.	Components	OUTER JKT THICKNESS		NOMINAL O.D.		WEIGHT lbs. / 1M'
		INCH	mm	INCH	mm	
9915	2	.030 PVC	.762 PVC	.328 x .560	8.33 x 14.25	115

## Composite Camera Cable



### Cable Identification

Ink jet print on jacket  
 "ADVANCED DIGITAL CABLE,  
 INC. RG 59/U + 18/6"

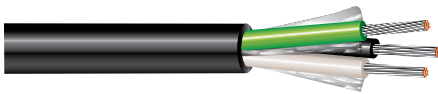
Specifications Coax	Specifications Multi-Conductors	Put-Ups
<b>Conductor</b> - 20 AWG Sol BC .032 <b>Braid</b> - 95% BC <b>Jacket</b> - PVC .224 Nominal	<b>Component 1</b> - 18 AWG/6c BC <b>Insulation</b> - PVC (PVC Nylon 600V Version Available Upon Request) <b>Color Code</b> - White, Black, Red, Brown, Blue, Green	Standard Reels 1,000', 2,500', 5,000' <i>Other lengths available. Please consult your factory representative for availability.</i>

PART NO.	Components	OUTER JKT THICKNESS		NOMINAL O.D.		WEIGHT lbs. / 1M'
		INCH	mm	INCH	mm	
9917	2	.030 PVC	.762 PVC	.284 x .500	7.21 x 12.7	117

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# VIDEO DETECTION CABLE

## Multi-Conductor Camera Cable



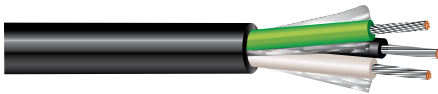
### Cable Identification

Inkjet print on jacket  
 "ADVANCED DIGITAL CABLE,  
 INC. 16/3 CAMERA (UL) TYPE  
 TC 90°C 600V SUN RES DIR  
 BUR E195597"

Specifications		Color Code	Put-Ups
<b>Conductor</b> - Stranded Tinned Copper per ASTM B174 <b>Insulation</b> 16 AWG - .098" PVC/NYLON (Other AWG sizes available)	<b>Fillers</b> - Nylon <b>Jacket</b> - PVC <b>Voltage Rating</b> - 600 V <b>Temp. Rating</b> - 90°C	Black, White, Green	Standard Reels 1,000', 2,500', 5,000' <i>Other lengths available. Please consult your factory representative for availability.</i>

PART NO.	AWG/ Conductors	OUTER JKT THICKNESS		NOMINAL O.D.		WEIGHT lbs. / 1M'
		INCH	mm	INCH	mm	
AST-6603TC	16/3	.045	1.143	.305	7.75	53.94

## Multi-Conductor Camera Cable



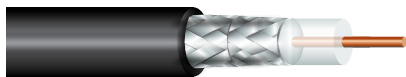
### Cable Identification

Inkjet print on jacket  
 "ADVANCED DIGITAL CABLE,  
 INC 18/3 600V SUN RES DIR  
 BUR"

Specifications		Color Code	Put-Ups
<b>Conductor</b> - Stranded Tinned Copper per ASTM B174 <b>Insulation</b> 18 AWG - .030" Polyethylene (Other AWG sizes available)	<b>Jacket</b> - Polyethylene <b>Voltage Rating</b> - 600 V <b>Temp. Rating</b> -40°C 75°C	Black, White, Green	Standard Reels 1,000', 2,500', 5,000' <i>Other lengths available. Please consult your factory representative for availability.</i>

PART NO.	AWG/ Conductors	OUTER JKT THICKNESS		NOMINAL O.D.		WEIGHT lbs. / 1M'
		INCH	mm	INCH	mm	
AST-1803	18/3	.045	1.143	.327	8.31	41.46

## Precision Video Coax



### Cable Identification

Inkjet print on jacket  
 "ADVANCED DIGITAL CABLE,  
 INC 75 Ohm PRECISION  
 VIDEO COAX CABLE RATED  
 FOR OUTDOOR USE"

Specifications		Color Code	Put-Ups
<b>Conductor</b> - 20AWG Solid Bare Copper .032 <b>Braid</b> - 2 x 98% TC <b>Jacket</b> - Polyethylene	<b>Attenuation Chart</b> - See Table on Page 15	Black	Standard Reels 1,000', 2,500', 5,000' <i>Other lengths available. Please consult your factory representative for availability.</i>

PART NO.	COND. NOM. DCR	NOMINAL CORE O.D.		NOMINAL O.D.		NOMINAL SHIELD DCR	IMPEDENCE/ NOMINAL VEL OF PROP.	NOMINAL CAPACITANCE pF/FT	WEIGHT lbs. / 1M'
		INCH	mm	INCH	mm				
2062PE Equal to Belden 8281	9.9Ω/M' 32.5Ω/km	.198	.503	.304	7.72	1.1Ω/M' 3.6Ω/km	75 66%	21	68.65

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Rev 121620



# XLP USE-2 or RHH/RHW-2 600V POWER CABLE

Cross-Linked Polyethylene Insulated  
14-750 MCM • 600 Volts • 90°C Dry and Wet



— Bare Copper

— XLPE Insulation



## Cable Identification

“ADVANCED DIGITAL CABLE, INC. XX AWG  
XLP 90C (-40C) E197262 (UL) TYPE RHH OR  
RHW-2 GR II SR OR USE-2 OIL RES II SUN RES  
DIR BUR 600V c(UL) RW90 1KV RoHS”

## Description

Single conductor, 90C Wet/Dry. Insulated with chemically cross-linked polyethylene insulation.

## Applications

Appropriate for use in general purpose wiring for lighting and power - residential, commercial, and industrial buildings. Suitable for applications that require superior flame retardance.

## Construction

Conductors: 14AWG - 750 MCM fully annealed stranded bare copper per ASTM B3. Class B Stranding per ASTM B 8.

Insulation: Chemically cross-linked polyethylene

Colors: Black, Brown, Orange, Yellow, Green, White, Red, Gray, Blue.

## Industry Listings & Standards

UL Listed as XLP USE-2 or RHH/RHW-2 per Standard 44 and 854

ICEA S-95-658/NEMA WC-70

Federal Specification A-A-59544

90°C Wet/Dry -40°C Rated

Gasoline and Oil Resistant II

C(UL)US RW90 1000V Listed

Sunlight Resistant

Direct Burial

RoHS Compliant



## Cable Data

Part Number	AWG	Strand	Insulation Thickness (mils)	Nominal O.D. (inch)	Approximate Net Weight lbs. / 1M'	Copper Weight per lbs. / 1M'
314	14	7	45	.161	22	12.69
312	12	7	45	.181	30	20.16
310	10	7	45	.204	45	32.05
308	8	7	60	.264	73	51.00
306	6	7	60	.301	107	81.00
304	4	7	60	.349	161	128.90
303	3	7	60	.377	189	162.50
302	2	7	60	.409	244	204.90
301	1	19	80	.489	305	258.00
3010	1/0	19	80	.522	372	326.00
3020	2/0	19	80	.566	460	411.00
3030	3/0	19	80	.616	568	518.00
3040	4/0	19	80	.672	713	653.00
30250	250 MCM	37	95	.748	853	772.00
30300	300 MCM	37	95	.795	1017	926.00
30350	350 MCM	37	95	.851	1167	1081.00
30400	400 MCM	37	95	.896	1333	1235.00
30500	500 MCM	37	95	.979	1638	1544.00
30600	600 MCM	61	110	1.086	1823	1853.00
30750	750 MCM	61	110	1.188	2476	2309.00

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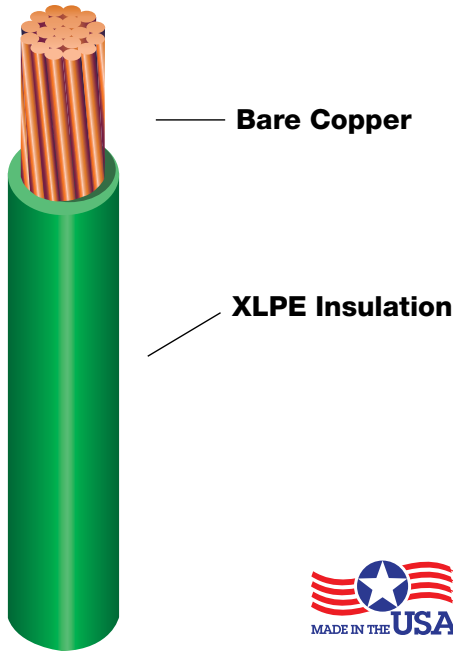
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Rev 062618



# XHHW-2 600V - POWER CABLE

Cross-Linked Polyethylene Insulated  
14-750 MCM • 600 Volts • 90°C Dry and Wet



## Cable Identification

“ADVANCED DIGITAL CABLE, INC. XX AWG XLP  
600 V 90C (-40C) GR II SR E218985 (UL) TYPE  
XHHW-2 OR c(UL) RW90 RoHS”

### CT Print Legend

“ADVANCED DIGITAL CABLE, INC. XX AWG XLP  
600 V 90C (-40C) GR II SR E218985 (UL) TYPE  
XHHW-2 FOR CT USE c(UL) RW90 RoHS”

## Description

Single conductor, 90C Wet/Dry. Insulated with chemically cross-linked polyethylene insulation.

## Applications

Appropriate for use in general purpose wiring for lighting and power - residential, commercial, and industrial buildings. Suitable for use in low leakage circuits requiring a dielectric constant of 3.5 or less.

## Construction

Conductors: 14AWG - 750 MCM fully annealed stranded bare copper per ASTM B3. Class B Stranding per ASTM B 8.

Insulation: Chemically cross-linked polyethylene

Colors: Black, Brown, Orange, Yellow, Green, White, Red, Gray, Blue.

## Industry Listings & Standards

UL Listed as XHHW-2 per Standard 44

ICEA S-95-658/NEMA WC-70

Federal Specification A-A-59544

90°C Wet/Dry -40°C Rated

Gasoline and Oil Resistant II - GR II

C(UL)US RW90 600V Listed

Sunlight Resistant - SR

RoHS Compliant

CT Rated 1/0 and larger

\*Non CT rated and VW-1 available upon request



## Cable Data

Part Number	AWG	Strand	Insulation Thickness (mils)	Nominal O.D. (inch)	Approximate Net Weight lbs. / 1M'	Copper Weight per lbs. / 1M'
214	14	7	30	.131	18	12.69
212	12	7	30	.151	27	20.16
210	10	7	30	.174	40	32.05
208	8	7	45	.234	66	51.00
206	6	7	45	.271	95	81.00
204	4	7	45	.319	145	128.90
203	3	7	45	.347	185	162.50
202	2	7	45	.379	225	204.90
201	1	19	55	.439	290	258.00
2010CT	1/0	19	55	.472	361	326.00
2020CT	2/0	19	55	.516	450	411.00
2030CT	3/0	19	55	.566	561	518.00
2040CT	4/0	19	55	.622	718	653.00
20250CT	250 MCM	37	65	.688	847	772.00
20300CT	300 MCM	37	65	.735	1006	926.00
20350CT	350 MCM	37	65	.791	1169	1081.00
20400CT	400 MCM	37	65	.836	1329	1235.00
20500CT	500 MCM	37	65	.919	1646	1544.00
20600CT	600 MCM	61	80	1.026	2051	1853.00
20750CT	750 MCM	61	80	1.128	2532	2309.00

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Rev 121620

## Color Codes and Attenuation Chart

### IMSA Cabled Conductors

Conductor Number	Insulation Color	Stripe Color
1	Black	
2	White	
3	Red	
4	Green	
5	Orange	
6	Blue	
7	White	Black
8	Red	Black
9	Green	Black
10	Orange	Black
11	Blue	Black
12	Black	White
13	Red	White
14	Green	White
15	Blue	White
16	Black	Red
17	White	Red
18	Orange	Red
19	Blue	Red
20	Red	Green
21	Orange	Green
22	Black	White/Red
23	White	Black/Red
24	Red	Black/White
25	Green	Black/White
26	Orange	Black/White

### IMSA 50-2 Multi-Pair

Pair Number	Color Combination
1	Black/Red
2	Black/White
3	Black/Green
4	Black/Yellow

### Coax Attenuation Chart

MHz	dB/100 ft.	dB/100 m.
1	.3	.8
3.6	.5	1.8
10.0	.8	2.6
71.5	2.1	6.9
135	3.0	9.8
270	4.3	14.1
360	5.1	16.6
540	6.3	20.7
720	7.4	24.3
750	7.6	24.9
1000	9.2	30.2

## Part Number Page Listing

Part Number	Page Number	Part Number	Page Number	Part Number	Page Number	Part Number	Page Number
201	14	8021	2	8309	5	8505	3
202	14	8025	2	8310	5	8507	3
203	14	8026	2	8312	5	8509	3
204	14	8102	3	8314	5	8510	3
206	14	8103	3	8315	5	8512	3
208	14	8104	3	8316	5	8516	3
210	14	8105	3	8319	5	8519	3
212	14	8107	3	8320	5	8520	3
214	14	8109	3	8321	5	8521	3
2010CT	14	8110	3	8325	5	8525	3
2020CT	14	8112	3	8326	5	8602	4
20250CT	14	8114	3	8362	5	8603	4
20300CT	14	8115	3	8364	5	8604	4
2030CT	14	8116	3	8365	5	8605	4
20350CT	14	8119	3	8367	5	8607	4
20400CT	14	8120	3	8369	5	8609	4
2040CT	14	8121	3	83610	5	8610	4
20500CT	14	8125	3	83612	5	8612	4
301	13	8126	3	83616	5	8616	4
302	13	8162	3	83620	5	8619	4
303	13	8163	3	8384HWB	9	8620	4
304	13	8164	3	8384PWB	9	8621	4
306	13	8165	3	8402	2	8625	4
308	13	8167	3	8403	2	8702	5
310	13	8169	3	8404	2	8703	5
312	13	81610	3	8405	2	8704	5
314	13	81612	3	8407	2	8705	5
3010	13	81616	3	8409	2	8707	5
3020	13	81620	3	8410	2	8709	5
3030	13	8202	4	8412	2	8710	5
3040	13	8203	4	8416	2	8712	5
30250	13	8204	4	8419	2	8716	5
30300	13	8205	4	8420	2	8719	5
30350	13	8207	4	8421	2	8720	5
30400	13	8209	4	8425	2	8740	8
30500	13	8210	4	8450	7	8742A	8
32003HSD	9	8212	4	8450PE	7	8743A	8
8002	2	8214	4	8452	6	8750	8
8003	2	8215	4	8454	6	8780	8
8004	2	8216	4	8460XL	7	8782A	8
8005	2	8219	4	8460XLP	7	8783A	8
8007	2	8220	4	8464	6	8784A	8
8009	2	8221	4	8465	6	8790	8
8010	2	8225	4	8470XL	7	9915	11
8012	2	8226	4	8470XLP	7	99163SFX	11
8014	2	8302	5	8480	7	9928	10
8015	2	8303	5	8480PE	7	9928F	10
8016	2	8304	5	8502	3	AST-1803	12
8019	2	8305	5	8503	3	AST-6603TC	12
8020	2	8307	5	8504	3		

The information contained on this specification is intended to be used as a guide in product selection and is believed to be reliable. ADC has made every effort to ensure the data shown above is accurate at the time of publication. This specification is subject to change anytime without notice.



# INTERNATIONAL MUNICIPAL SIGNAL ASSOCIATION (IMSA) CABLES

## CABLE SELECTION GUIDE

Spec. No.	Voltage Rating	Applications	Installation	Conductor Configuration	Mechanical Characteristics
19-1	600	Traffic Signal - Fire Protective Signal	Aerial or Duct	Cabled Conductors	PVC Outer Jacket
19-2	600	Traffic Signal - Fire Protective Signal	Aerial or Duct	Twisted Pairs	Shielded, PVC Outer Jacket
19-3	600	Traffic Signal - Fire Protective Signal	Figure-8 Aerial, Integral Msgr.	Cabled Conductors	PVC Outer Jacket
19-4	600	Traffic Signal - Fire Protective Signal	Figure-8 Aerial, Integral Msgr.	Twisted Pairs	Shielded, PVC Outer Jacket
19-5	600	Traffic Signal - Fire Protective Signal	Aerial, Duct or Buried	Cabled Conductors	Shielded, PE Inner & PVC Outer Jackets
19-6	600	Traffic Signal - Fire Protective Signal	Aerial, Duct or Buried	Twisted Pairs	Shielded, PE Inner & PVC Outer Jackets
20-1	600	Traffic Signal - Fire Protective Signal	Aerial or Duct	Cabled Conductors	PE Outer Jacket
20-2	600	Traffic Signal - Fire Protective Signal	Aerial or Duct	Twisted Pairs	Shielded, PE Outer Jacket
20-3	600	Traffic Signal - Fire Protective Signal	Figure-8 Aerial, Integral Msgr.	Cabled Conductors	PE Outer Jacket
20-4	600	Traffic Signal - Fire Protective Signal	Figure-8 Aerial, Integral Msgr.	Twisted Pairs	Shielded, PE Outer Jacket
20-5	600	Traffic Signal - Fire Protective Signal	Aerial, Duct or Buried	Cabled Conductors	Shielded, PE Inner & Outer Jacket
20-6	600	Traffic Signal - Fire Protective Signal	Aerial, Duct or Buried	Twisted Pairs	Shielded, PE Inner & Outer Jacket
26-3	-	Signal Systems	Aerial Self-Supporting	Single Hard-Drawn Copper Conductor	High Density Polyethylene (HDPE) Insulation
28-3	-	Signal Systems	Aerial Self-Supporting	Single Copper-Covered Steel Conductor	HDPE Insulation
29-1	-	Signal Systems	Aerial Self-Supporting	"C" Line Wire (Parallel) 2 Hard-Drawn Copper Conductors	HDPE Insulation
29-2	-	Signal Systems	Aerial Self-Supporting	"C" Line Wire (Parallel) 2 Copper-Covered Steel Conductors	HDPE Insulation
29-3	-	Signal Systems	Aerial Self-Supporting	"C" Line Wire (Parallel) 2 Hard-Drawn Copper Conductors	HDPE Insulation PVC Outer Jacket
29-4	-	Signal Systems	Aerial Self-Supporting	"C" Line Wire (Parallel) 2 Copper-Covered Steel Conductors	HDPE Insulation PVC Outer Jacket
39-2	300	Fire Protective Signal, Traffic Communications, Data Acquisition	Aerial, Duct or Building Raceway	Twisted Pairs	Shielded, PVC Outer Jacket
39-4	300	Traffic Communications, Data Acquisition	Figure-8 Aerial, Integral Msgr.	Twisted Pairs	Shielded, PVC Outer Jacket
39-6	300	Fire Protective Signal, Traffic Communications, Data Acquisition	Aerial, Duct, Buried or Building Raceway	Twisted Pairs	Shielded, PE Inner & PVC Outer Jackets
40-2	300	Fire Protective Signal, Traffic Communications, Data Acquisition	Aerial, Duct or Building Raceway	Twisted Pairs	Shielded, PE Outer Jacket
40-4	300	Traffic Communications, Data Acquisition	Figure-8 Aerial, Integral Msgr.	Twisted Pairs	Shielded, PE Outer Jacket
40-6	300	Fire Protective Signal, Traffic Communications, Data Acquisition	Aerial, Duct, Buried or Building Raceway	Twisted Pairs	Shielded, PE Inner & Outer Jacket
50-2	600	Signal Loop Detector Lead-In Feeder	Duct or Buried	Twisted Pair	PE Insulation, PE Outer Jacket
51-1	600	Inductance Loop Detector	Duct	Single Conductor	PVC/Nylon Insulation
51-3	600	Inductance Loop Detector	Duct or Buried	Single Conductor	Cross Linked PE Insulation
51-5	600	Inductance Loop Detector	Duct or Buried	Single Conductor	PVC/Nylon Insulation in PVC or PE Tube
51-7	600	Inductance Loop Detector	Duct or Buried	Single Conductor	Cross Linked PE Insulation in PVC or PE Tube
59-2	300	Fire Protective Signal, Traffic Communications, Data Acquisition	Aerial or Duct	Twisted Pairs	Filled Core, Shielded, PVC Outer Jacket
59-4	300	Traffic Communications, Data Acquisition	Figure-8 Aerial, Integral Msgr.	Twisted Pairs	Filled Core, Shielded, PVC Outer Jacket
59-6	300	Fire Protective Signal, Traffic Communications, Data Acquisition,	Aerial, Duct or Buried	Twisted Pairs	Filled Core, Shielded, PE Inner Jacket PVC Outer Jacket
60-2	300	Fire Protective Signal, Traffic Communications, Data Acquisition	Aerial or Duct	Twisted Pairs	Filled Core, Shielded, PE Outer Jacket
60-4	300	Traffic Communications, Data Acquisition	Figure-8 Aerial, Integral Msgr.	Twisted Pairs	Filled Core, Shielded, PE Outer Jacket
60-6	300	Fire Protective Signal, Traffic Communications, Data Acquisition	Aerial, Duct or Buried	Twisted Pairs	Filled Core, Shielded, PE Inner and PE Outer Jacket

# market solutions



Advanced Digital Cable, Inc (ADC) is a leading manufacturer of wire and cable, providing market solutions for a wide range of industries and applications. Founded in 1997, ADC has grown from a single location in Hayesville, NC into three US locations with over 500,000 square feet of manufacturing and warehousing space. Unlike the competition, ADC is utilizing the most current manufacturing technology and equipment to ensure superior quality. ADC proudly manufactures all of its products in the United States of America and continues to invest in new products, technology, people and capacity to ensure its position as an industry leader. ADC is committed to developing and manufacturing the highest quality products, at the most competitive market prices, with unsurpassed customer service.

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