



## IDC Flat Ribbon Cable

### GIC EMEA Product Guide – December 02

#### Introduction

This guide illustrates the broad range of ribbon cables now available through the AMP and Ansley brands. All products are sold in a standard unit of measure of Metres.

#### Standard 1.27mm Flat Cable

#### Ansley 171G Series

High quality standard blue cable with repeating red and blue identification stripes. Supersedes the original Ansley 171 series.

Wire size	28 AWG (7/36) stranded
Colour	Blue
Insulation	PVC
Temperature rating	105C
Voltage rating	300V rms
Impedance	100Ω
Capacitance	46pF/m
Inductance	0.46uH/m
Propagation delay	4.53nS/m
Insulation resistance	10 <sup>10</sup> Ω

Crosstalk - 3.05 mtr sample 1 line driven		
Rise time	3.0nS	7.0nS
Near end	5.0%	3.2%
Far end	6.7%	2.7%

UL style no	2651
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#### Reel Length 30 Metres

No of Ways	Part Ref	Part No
09	171-09G	1-1437356-8
10	171-10G	2-1437356-9
14	171-14G	4-1437356-9
15	171-15G	6-1437356-1
16	171-16G	7-1437356-3
20	171-20G	9-1437356-1
24	171-24G	0-1437357-6
25	171-25G	1-1437357-9
26	171-26G	3-1437357-4
34	171-34G	5-1437357-5
36	171-36G	6-1437357-4
37	171-37G	7-1437357-3
40	171-40G	8-1437357-9
50	171-50G	1-1437358-1
60	171-60G	2-1437358-7
64	171-64G	3-1437358-7

#### Reel Length 100 Metres

No of Ways	Part Ref	Part No
09	171-09G-100M	1-1437356-9
10	171-10G-100M	3-1437356-0
14	171-14G-100M	5-1437356-1
15	171-15G-100M	6-1437356-2
16	171-16G-100M	7-1437356-4
20	171-20G-100M	9-1437356-2
24	171-24G-100M	0-1437357-7
25	171-25G-100M	2-1437357-0
26	171-26G-100M	3-1437357-5
34	171-34G-100M	5-1437357-6
36	171-36G-100M	6-1437357-5
37	171-37G-100M	7-1437357-4
40	171-40G-100M	9-1437357-0
50	171-50G-100M	1-1437358-2
60	171-60G-100M	2-1437358-8
64	171-64G-100M	3-1437358-8

## AMP 971111 and 57040 Series

A cost effective standard grey ribbon cable with red identification stripe.

Wire size	28 AWG (7/36) stranded
Colour	Grey
Insulation	PVC
Temperature rating	105C
Voltage rating	300V rms
Impedance	105Ω
Capacitance	45pF/m
Propagation delay	4.76nS/m
Insulation resistance	10 <sup>10</sup> Ω

Crosstalk - 3.05 mtr sample	1 line driven
Rise time	5.0nS
Near end	3.0%
Far end	4.0%

UL style no 2651



### Reel Length 30 Metres

No of Ways	Part No
09	1-57040-2
10	1-57040-3
14	1-57040-4
15	1-57040-5
16	1-57040-6
20	0-57040-1
24	1-57040-7
25	0-57040-2
26	0-57040-3
34	0-57040-4
36	2-57040-5
37	1-57040-8
40	0-57040-5
50	0-57040-6
60	0-57040-7
64	2-57040-2

### Reel Length 152 Metres

No of Ways	Part No
09	1-971111-2
10	1-971111-3
14	1-971111-4
15	1-971111-5
16	1-971111-6
20	0-971111-1
24	1-971111-7
25	0-971111-2
26	0-971111-3
34	0-971111-4
36	2-971111-5
37	1-971111-8
40	0-971111-5
50	0-971111-6
60	0-971111-7
64	2-971111-2

## Colour Coded 1.27mm Flat Cable

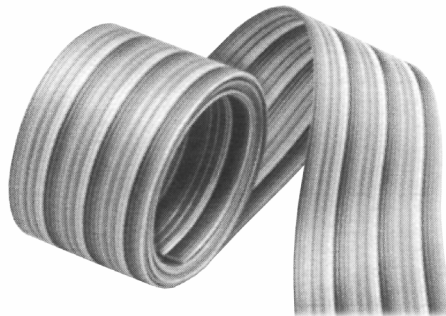
### Ansley 201G Series

Colour coded cable, particularly suited for splitting into discrete wires or for improved conductor identification. Supersedes the original Ansley 201 series.

Wire size	28 AWG (7/36) stranded
Colour	Colour coded
Insulation	PVC
Temperature rating	105C
Voltage rating	300V rms
Impedance	100Ω
Capacitance	46pF/m
Inductance	0.46uH/m
Propagation delay	4.53nS/m
Insulation resistance	10 <sup>10</sup> Ω

Crosstalk - 3.05 mtr sample	1 line driven
Rise time	3.0nS 7.0nS
Near end	5.0% 3.2%
Far end	6.7% 2.7%

UL style no 20067



### Reel Length 30 Metres

No of Ways	Part Ref	Part No
09	201-09G	3-1437366-8
10	201-10G	3-1437366-9
14	201-14G	4-1437366-0
15	201-15G	4-1437366-1
16	201-16G	4-1437366-2
20	201-20G	4-1437366-3
24	201-24G	4-1437366-4
25	201-25G	4-1437366-5
26	201-26G	4-1437366-6
34	201-34G	4-1437366-7
36	201-36G	4-1437366-8
37	201-37G	4-1437366-9
40	201-40G	5-1437366-0
50	201-50G	5-1437366-1
60	201-60G	5-1437366-2
64	201-64G	5-1437366-3

### Twisted Pair 1.27mm Flat Cable

#### Ansley 200 Series

Alternate twisted pair and bonded flat cable sections offering the benefit of improved crosstalk reduction when compared with standard flat cables.

Wire size	28 AWG (7/36) stranded
Colour	Colour coded
Insulation	PVC
Temperature rating	105C
Voltage rating	300V rms
Impedance	95Ω
Capacitance	52pF/m
Propagation delay	5.4nS/m
Insulation resistance	10 <sup>10</sup> Ω

Crosstalk - 3.05 mtr sample 1 line driven		
Rise time	3.0nS	7.0nS
Near end	4.2%	4.0%
Far end	8.5%	5.4%

UL style no 20184



### Reel Length 30 Metres

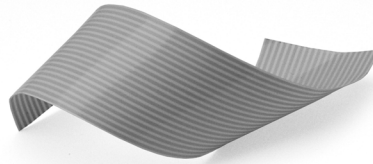
No of Ways	Part Ref	Part No
10	200-10	0-1437366-2
14	200-14	0-1437366-7
16	200-16	0-1437366-9
20	200-20	1-1437366-2
26	200-26	1-1437366-6
34	200-34	2-1437366-0
40	200-40	2-1437366-5
50	200-50	2-1437366-7
60	200-60	3-1437366-1
64	200-64	3-1437366-4

## Very High Flexibility 1.27mm Flat Cable

### Ansley 175 Series

High flexibility flat conductor cable for use with Ansley 609 series contacts only. Requires self adhesive cable guide adapter for correct termination, 609-WXX4 for socket connectors, and 609-WXX3 for pcb transition connectors.

Wire size	32 AWG flat conductor
Colour	Pink
Insulation	Polyester
Temperature rating	80C
Voltage rating	90V rms



#### Reel Length 30 Metres

No of Ways	Part Ref	Part No
10	175-10G	0-1437380-2
14	175-14G	0-1437380-3
16	175-16G	0-1437380-4
20	175-20G	0-1437380-5
26	175-26G	0-1437380-6
34	175-34G	0-1437380-7
40	175-40G	1-1437380-0
50	175-50G	1-1437380-2
60	175-60G	1-1437380-4
64	175-64G	1-1437380-5

## High Flex Life 1.27mm Flat Cable

### Ansley 185 Series

High flex life cable for applications involving motion or repetitive flexing cycles.

Wire size	28 AWG (19/40) stranded
Colour	Grey
Insulation	PVC
Temperature rating	105C
Voltage rating	300V rms
Impedance	100Ω
Capacitance	46pF/m
Inductance	0.51uH/m
Propagation delay	4.53nS/m
Insulation resistance	10 <sup>10</sup> Ω

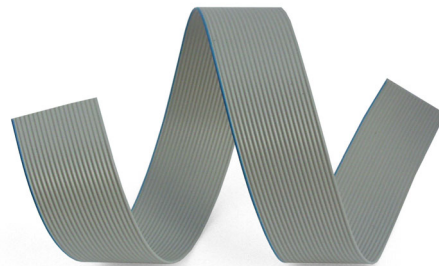
Crosstalk - 3.05 mtr sample 1 line driven		
Rise time	3.0nS	7.0nS
Near end	5.0%	3.2%
Far end	6.7%	2.7%

Flexing cycles (typical) 20 million

UL style no 2651

#### Reel Length 30 Metres

No of Ways	Part Ref	Part No
10	185-10	0-1437361-3
14	185-14	0-1437361-8
16	185-16	1-1437361-5
20	185-20	1-1437361-8
26	185-26	2-1437361-8
34	185-34	3-1437361-4
40	185-40	4-1437361-0
50	185-50	4-1437361-7



## Round to Flat 1.27mm Jacketed Cable

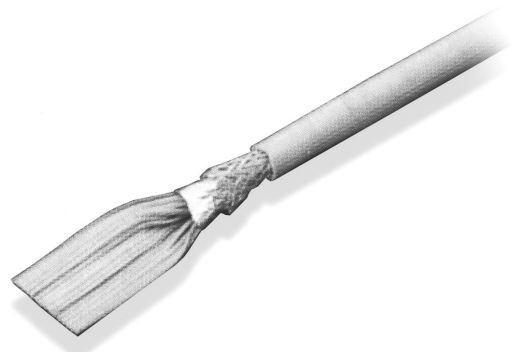
### Ansley 300 Series Shielded

Rugged and durable round jacketed and shielded cable with alternate sections of bonded and separated conductors. Ideal for external equipment connection.

Wire size 28 AWG (7/36) stranded  
 Colour Grey  
 Insulation PVC  
 Temperature rating 80C  
 Voltage rating 300V rms  
 Impedance 57Ω  
 Capacitance 92pF/m  
 Inductance 0.30uH/m  
 Propagation delay 4.5nS/m

Crosstalk - 3.05 mtr sample 1 line driven  
 Rise time 3.0nS 7.0nS  
 Near end 3.8% 1.8%  
 Far end 4.8% 3.3%

UL style no 20267



#### Reel Length 30 Metres

No of Ways	Part Ref	Part No
09	300-09	0-1437373-2
10	300-10	0-1437373-6
14	300-14	0-1437373-7
15	300-15	0-1437373-9
16	300-16	1-1437373-3
20	300-20	1-1437373-6
24	300-24	1-1437373-9
25	300-25	2-1437373-0
26	300-26	2-1437373-3
34	300-34	2-1437373-7
36	300-36	2-1437373-9
37	300-37	3-1437373-0
40	300-40	3-1437373-3
50	300-50	3-1437373-6
60	300-60	4-1437373-0
64	300-64	4-1437373-2

#### Reel Length 100 Metres

No of Ways	Part Ref	Part No
09	300-09-100M	0-1437373-1
10	300-10-100M	0-1437373-4
14	300-14-100M	0-1437373-8
15	300-15-100M	1-1437373-0
16	300-16-100M	1-1437373-4
20	300-20-100M	1-1437373-7
24	-----	-----
25	300-25-100M	2-1437373-1
26	300-26-100M	2-1437373-4
34	300-34-100M	2-1437373-8
36	-----	-----
37	300-37-100M	3-1437373-1
40	300-40-100M	3-1437373-4
50	300-50-100M	3-1437373-7
60	300-60-100M	4-1437373-1
64	300-64-100M	4-1437373-3

### Ansley 301 Series Unshielded

An unshielded version of the Ansley 300 series for applications where additional screening is not required.

Wire size 28 AWG (7/36) stranded  
 Colour Grey  
 Insulation PVC  
 Temperature rating 80C  
 Voltage rating 300V rms  
 Impedance 63Ω  
 Capacitance 81pF/m  
 Inductance 0.33uH/m  
 Propagation delay 4.4nS/m

Crosstalk - 3.05 mtr sample 1 line driven  
 Rise time 3.0nS 7.0nS  
 Near end 4.8% 3.5%  
 Far end 5.8% 3.0%

UL style no 20267



### Reel Length 30 Metres

No of Ways	Part Ref	Part No
09	301-09	4-1437373-4
10	301-10	4-1437373-7
14	301-14	4-1437373-9
15	301-15	5-1437373-0
16	301-16	5-1437373-1
20	301-20	5-1437373-3
24	301-24	5-1437373-6
25	301-25	5-1437373-7
26	301-26	5-1437373-8
34	301-34	6-1437373-2
36	301-36	6-1437373-4
37	301-37	6-1437373-5
40	301-40	6-1437373-7
50	301-50	6-1437373-9
60	301-60	7-1437373-2
64	301-64	7-1437373-4

### Reel Length 100 Metres

No of Ways	Part Ref	Part No
09	301-09-100M	4-1437373-5
10	301-10-100M	4-1437373-8
14	-----	-----
15	-----	-----
16	301-16-100M	5-1437373-2
20	301-20-100M	5-1437373-4
24	-----	-----
25	-----	-----
26	301-26-100M	5-1437373-9
34	301-34-100M	6-1437373-3
36	-----	-----
37	301-37-100M	6-1437373-6
40	301-40-100M	6-1437373-8
50	301-50-100M	7-1437373-0
60	-----	-----
64	-----	-----

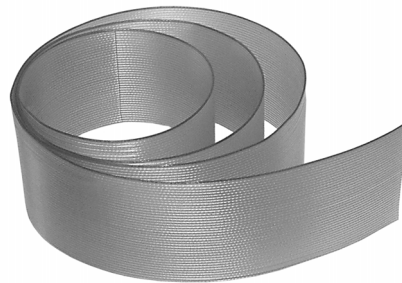
## High Temperature Halogen Free 1.27mm Flat Cable

### Ansley 191 Series

Halogen free cable for applications requiring low smoke and low toxins under fire conditions. High temperature rating of 150C allows this cable to be used in place of PTFE in certain situations.

Wire size	28 AWG (7/36) stranded
Colour	Gold
Insulation	Halogen free compound
Temperature rating	150C
Voltage rating	200V rms
Impedance	110Ω
Capacitance	40pF/m
Inductance	0.55uH/m
Propagation delay	4.10nS/m

Flammability	UL94V-0
Oxygen index	46%



### Reel Length 30 Metres

No of Ways	Part Ref	Part No
10	191-10A	0-1437379-1
20	191-20A	0-1437379-3
26	191-26A	0-1437379-5
34	191-34A	0-1437379-7
40	191-40A	0-1437379-9
50	191-50A	1-1437379-1

## Other Products

### **AMP 57013 Series**

Standard grey 0.64mm cable with 30 AWG solid conductor for use with fine pitch IDC connector systems. Available in 30 and 152 metre reel sizes.

### **AMP 57131 Series**

Standard grey 0.64mm cable with 30 AWG (7/38) stranded conductor for use with fine pitch IDC connector systems. Available in 30 and 152 metre reel sizes.

### **AMP 726822 Series**

Standard grey 1.27mm flat cable with 28 AWG (7/36) stranded conductor. Available in a 100 metre reel size. Preferred product for new designs should generally be either the Ansley 171G or AMP 971111. This product is however an ideal partner for the MicroMatch connector where it is widely used for cable assemblies.

### **Ansley 179 Series**

Standard grey 1.27mm flat cable with 26 AWG (7/34) stranded conductor. Available in a 30 metre reel size. May be used in applications requiring a higher current capability than standard 28 AWG cables.

### **AMP 57034 Series**

Standard grey 1.27mm flat cable with 26 AWG (7/34) stranded conductor. Available in a 152 metre reel size. Preferred product for new designs is the Ansley 179 series.

## Replacements for Obsolete Series

### **AMP 57643 Series**

Colour coded 1.27 mm flat cable. Offer Ansley 201G series as replacement.

### **AMP 57641 Series**

Twisted pair 1.27mm flat cable. Offer Ansley 200 series as replacement.

### **AMP 57648 Series**

Round to flat 1.27mm jacketed cable. Offer Ansley 300 series as replacement.

### **Ansley 136 Series**

Fine pitch 0.64mm solid conductor flat cable. Offer AMP 57013 series as replacement.

### **Ansley 137 Series**

Fine pitch 0.64mm stranded conductor flat cable. Offer AMP 57131 series as replacement.