

# IDC Ribbon Cables

pro-POWER

## Grey 1.27 mm (0.05 Inches) Pitch



### Features:

- The first conductor is identified by a Red leading edge
- It is used in internal connection for computer, duplicator, facsimile, game, interface and many other electronic equipments

### Specifications:

#### Conductor : Stranded

AWG Size	: 28 AWG
Number of Strands in Each Conductor	: 7/0.127 mm
Lay of Strands in Each Conductor	: 0.5 inch at least
Cross sectional area	: 156 mm
Material	: Tinned copper

#### Insulation

Material of Insulation	: Grey polyvinyl chloride (PVC)
Extruded PVC insulated singles bonded together	
Insulation Thickness Average	: 9 mm
Minimum Insulation Thickness	: 7 mm

#### Physical Properties : After 7 days air oven at 136°C

Average Tensile Strength	: 1,500 lbs / inch <sup>2</sup>
Percent of Original	: 70% at least
Average Elongation	: 200%
Percent of Original	: 65% at least

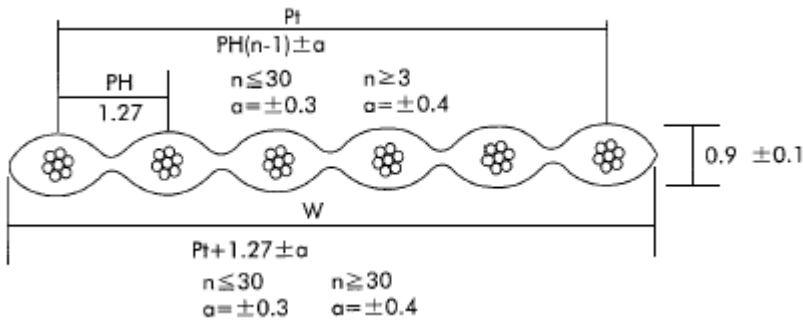
#### Electronic Characteristics

Spark Test	: 2,500 V
Dielectric Strength Test	: Minimum 2 KV in 1 min
Conductor Resistance	: Maximum 237 $\Omega$ / km
Insulation Resistance	: Minimum 100 M $\Omega$ / km
Capacitance	: 45 pF / m
Inductance	: 1.5 $\mu$ H / m
Impedance	: 100 $\Omega$
Propagation Delay Time	: 4.2 ns / m
Temperature Rating	: 105°C
Voltage Rating	: 300 V
Reels	: 30.5 m

# IDC Ribbon Cables

## Grey 1.27 mm (0.05 Inches) Pitch

### Construction Drawing



### Construction Table

Number of Cores	Size of Conductor		Thickness ( $\pm 0.1$ )	Width	Allowable Error	Part Number
	AWG	Composition				
8	28	7/0.127	0.9	-	-	NFCG-2808
9				11.43	$\pm 0.3$	NFCG-2809
10				12.7		NFCG-2810
14				17.78		NFCG-2814
15				19.05		NFCG-2815
16				20.32		NFCG-2816
20				25.4		NFCG-2820
24				-		NFCG-2824
25				31.75		NFCG-2825
26				33.02		NFCG-2826
34				43.18	$\pm 0.4$	NFCG-2834
36				45.72		NFCG-2836
37				-	-	NFCG-2837
40				50.8	$\pm 0.4$	NFCG-2840
50				63.5		NFCG-2850
60				76.2		NFCG-2860
64				81.28		NFCG-2864

# IDC Ribbon Cables

pro-POWER

## Grey 1.27 mm (0.05 Inches) Pitch

---

### Part Number Explanation:

NFCG

28

08

Wire Gauge

Number of Cores

**Wire Gauge** : 28 AWG

**Number of Cores** : 08, 09, 10, 14, 15, 16, 20, 24, 25, 26, 34, 36, 37, 40, 50, 60 and 64

**Important Notice** : This data sheet and its contents (the "Information") belong to the members of the Premier Farnell group of companies (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. Pro-POWER is the registered trademark of the Group. © Premier Farnell plc 2012.

[www.element14.com](http://www.element14.com)  
[www.farnell.com](http://www.farnell.com)  
[www.newark.com](http://www.newark.com)  
[www.cpc.co.uk](http://www.cpc.co.uk)

pro-POWER