

# 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

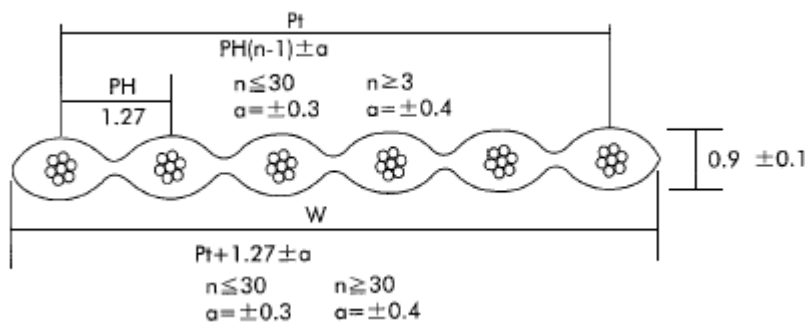
|                          |                               |
|--------------------------|-------------------------------|
| Spark Test               | : 2,500 V                     |
| Dielectric Strength Test | : Minimum 2 KV in 1 min       |
| Conductor Resistance     | : Maximum 237 $\Omega$ / km   |
| 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                      |

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### Construction Drawing



### Construction Table

| Number of Cores | Size of Conductor |             | Thickness (± 0.1) | Width | Allowable Error | Part Number |
|-----------------|-------------------|-------------|-------------------|-------|-----------------|-------------|
|                 | AWG               | Composition |                   |       |                 |             |
| 8               | 28                | 7/0.127     | 0.9               | -     | -               | NFCG-2808   |
| 9               |                   |             |                   | 11.43 | ±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 | ±0.4            | NFCG-2834   |
| 36              |                   |             |                   | 45.72 |                 | NFCG-2836   |
| 37              |                   |             |                   | -     | -               | NFCG-2837   |
| 40              |                   |             |                   | 50.8  | ±0.4            | NFCG-2840   |
| 50              |                   |             |                   | 63.5  |                 | NFCG-2850   |
| 60              |                   |             |                   | 76.2  |                 | NFCG-2860   |
| 64              |                   |             |                   | 81.28 |                 | NFCG-2864   |

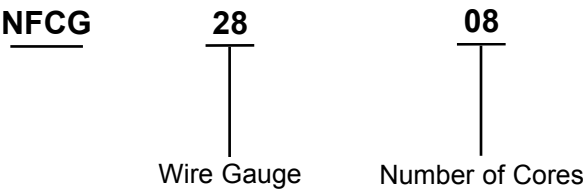


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### Part Number Explanation:



- 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

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