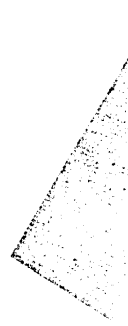


# Cables

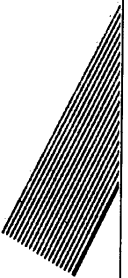
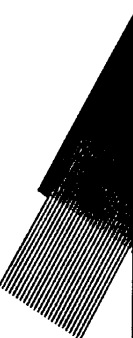
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A complete line of cable types, including standard round conductor, colour coded, ground plane with and without drain wire, extended flex life, mass terminatable twisted pair, jacketed, shielded/jacketed, pleated foil and round jacketed configurations.

| Properties                              | Round conductor flat cable                                                        |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |
|-----------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                                         |  |  |  |  |  |  |
| Part number                             | 3749-XX FS                                                                        | 3756-XX FS                                                                        | 3849-XX                                                                            | 3365-XX                                                                             | 2010-XX                                                                             | 3801-XX                                                                             |
| Application                             | Standard applications                                                             |                                                                                   |                                                                                    |                                                                                     |                                                                                     |                                                                                     |
| Conductor spacing (mm)                  | 0.635                                                                             | 0.635                                                                             | 0.85                                                                               | 1.27                                                                                | 1.27                                                                                | 1.27                                                                                |
| Conductor type                          | Solid                                                                             | Stranded                                                                          | Stranded                                                                           | Stranded                                                                            | Stranded                                                                            | Stranded                                                                            |
| Conductor size                          | 30 AWG                                                                            | 30 AWG                                                                            | 30 AWG                                                                             | 28 AWG                                                                              | 28 AWG                                                                              | 26 AWG                                                                              |
| Insulation material                     | TPE                                                                               | TPE                                                                               | PVC                                                                                | PVC                                                                                 | Halogen free organic thermoplastic                                                  | PVC                                                                                 |
| Colour                                  | Grey                                                                              | Grey                                                                              | Grey                                                                               | Grey                                                                                | Tan                                                                                 | Grey                                                                                |
| First conductor marking                 | Blue                                                                              | Blue                                                                              | Red                                                                                | Red                                                                                 | None                                                                                | Red                                                                                 |
| Insulation resistance ( $\Omega / 3m$ ) | $> 1 \times 10^{10}$                                                              | $> 1 \times 10^{10}$                                                              | $> 1 \times 10^{10}$                                                               | $> 1 \times 10^{10}$                                                                | $> 1 \times 10^{10}$                                                                | $> 1 \times 10^{10}$                                                                |
| Conductor quantity                      | 68                                                                                | 68                                                                                | 96                                                                                 | 9, 10, 14, 15, 16, 20, 24, 25, 26, 34, 37, 40, 50, 60, 64                           | 10, 14, 16, 20, 25, 26, 34, 37, 40, 50, 60, 64                                      | 10, 14, 16, 20, 26, 34, 40, 50, 64                                                  |
| Length (m)                              | 91.44                                                                             | 91.44                                                                             | 91.44                                                                              | 30.48 / 91.44                                                                       | 30.48                                                                               | 30.48                                                                               |
| Impedance ( $\Omega$ ) unbalanced       | 85                                                                                | 82                                                                                | 89                                                                                 | 108                                                                                 | 107                                                                                 | 89                                                                                  |
| Capacitance (pF/m) unbalanced           | 53.8                                                                              | 56.8                                                                              | 57.4                                                                               | 42.0                                                                                | 45.9                                                                                | 53.1                                                                                |
| Inductance ( $\mu H/m$ ) unbalanced     | 0.39                                                                              | 0.39                                                                              | 0.46                                                                               | 0.50                                                                                | 0.53                                                                                | 0.43                                                                                |
| Propagation delay (ns/m) unbalanced     | 4.59                                                                              | 4.66                                                                              | 5.12                                                                               | 4.59                                                                                | 4.92                                                                                | 4.72                                                                                |
| Voltage rating (v)                      | 150                                                                               | 150                                                                               | 300                                                                                | 300                                                                                 | 30                                                                                  | 300                                                                                 |
| Temperature rating ( $^{\circ}C$ )      | -40 +105                                                                          | -40 +105                                                                          | -20 +105                                                                           | -20 +105                                                                            | -40 +105                                                                            | -20 +105                                                                            |
| APPROVALS                               | UL E42769/<br>20297<br>CSA option<br>UL E42769/<br>20297                          | UL E42769/<br>20297<br>CSA option<br>UL E42769/<br>20297                          | UL E42769/<br>2651<br>CSA option                                                   | UL E42769/<br>2651<br>CSA option                                                    | UL E42769/<br>20930                                                                 | UL E42769/<br>2651<br>CSA option                                                    |

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in wire,  
rations.

| Colour<br>coded<br>flat cable                                                    | Extended<br>flex life<br>flat cable                                               |                                                                                   | Twisted<br>pair<br>flat cable                                                     |                                                                                   | Ground<br>plane<br>cable                                                           | Jacketed,<br>shielded<br>flat cable                                                 | Round,<br>jacketed<br>flat cable                                                    | Round,<br>jacketed twisted<br>pair flat cable                                       |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |  |  |  |  |  |  |
| 3302-XX                                                                          | 3319-XX                                                                           | 3539-XX                                                                           | 1700-XX                                                                           | 3782-XXP-270A                                                                     | 3476-XX                                                                            | 3517-XX                                                                             | 3759-XX                                                                             | 3783-XXP-540A                                                                       |
|                                                                                  | High flex life application                                                        |                                                                                   | High speed applications                                                           |                                                                                   |                                                                                    | EMI/ESD protected<br>I/O interconnections                                           | Protected Input/Output<br>interconnections                                          |                                                                                     |
| 1.27                                                                             | 1.27                                                                              | 1.27                                                                              | 1.27                                                                              | 1.27                                                                              | 1.27                                                                               | 1.27                                                                                | 1.27                                                                                | 1.27                                                                                |
| Stranded                                                                         | 19 strands<br>silver plated<br>copper                                             | 19 strands<br>tinned copper                                                       | Stranded                                                                          | Stranded                                                                          | Stranded<br>One drain                                                              | Stranded                                                                            | Stranded                                                                            | Stranded                                                                            |
| 28 AWG                                                                           | 28 AWG                                                                            | 28 AWG                                                                            | 28 AWG                                                                            | 28 AWG                                                                            | 28 AWG                                                                             | 28 AWG                                                                              | 28 AWG                                                                              | 28 AWG                                                                              |
| PVC                                                                              | PVC                                                                               | PVC                                                                               | PVC                                                                               | PVC                                                                               | PVC                                                                                | PVC                                                                                 | PVC                                                                                 | PVC                                                                                 |
| 10 colour repeat                                                                 | Black                                                                             | Grey                                                                              | 10 colour repeat                                                                  | 10 colour repeat                                                                  | Grey                                                                               | Black jacket<br>Grey cable                                                          | Black jacket<br>Grey cable                                                          | Grey jacket<br>10 colour repeat                                                     |
| Brown                                                                            | Grey                                                                              | Red                                                                               | Brown                                                                             | Brown                                                                             | Blue                                                                               | Red                                                                                 | Red                                                                                 | Brown                                                                               |
| $> 1 \times 10^9$                                                                | $> 1 \times 10^{10}$                                                              | $> 1 \times 10^{10}$                                                              | $> 1 \times 10^{10}$                                                              | $> 1 \times 10^9$                                                                 | $> 1 \times 10^{10}$                                                               | $> 1 \times 10^{10}$                                                                | $> 1 \times 10^{10}$                                                                | $> 1 \times 10^{10}$                                                                |
| 9, 10, 14, 15, 16,<br>20, 24, 25, 26, 34,<br>37, 40, 50, 60, 64                  | 10, 14, 16, 20, 26,<br>34, 40, 50, 64                                             | 10, 14, 16, 20, 26,<br>34, 40, 50, 64                                             | 10, 16, 26, 34,<br>40, 50, 64                                                     | Pairs<br>5p, 7p, 8p, 10p,<br>13p, 17p, 20p,<br>25p, 32p                           | 16, 20, 26, 34,<br>40, 50                                                          | 9, 10, 16, 20, 25,<br>26, 34, 37, 40,<br>50, 64                                     | 9, 10, 14, 15, 16,<br>20, 25, 26, 30, 34,<br>37, 40, 50, 64                         | Pairs<br>5p, 13p, 17p, 25p                                                          |
| 30.48                                                                            | 30.48                                                                             | 30.48                                                                             | 30.48                                                                             | 30.48                                                                             | 30.48                                                                              | 30.48                                                                               | 30.48 / 91.44                                                                       | 76.20                                                                               |
| 105                                                                              | 107                                                                               | 106                                                                               | 100                                                                               | 100                                                                               | 65                                                                                 | 70                                                                                  | 90                                                                                  | 90                                                                                  |
| 46.3                                                                             | 43.6                                                                              | 43.8                                                                              | 52                                                                                | 53                                                                                | 82.3                                                                               | 70.5                                                                                | 54.8                                                                                | 87                                                                                  |
| 0.49                                                                             | 0.49                                                                              | 0.49                                                                              | 0.52                                                                              | 0.54                                                                              | 0.36                                                                               | 0.36                                                                                | 0.46                                                                                | 0.56                                                                                |
| 4.82                                                                             | 4.66                                                                              | 4.64                                                                              | 5.3                                                                               | 5.1                                                                               | 5.4                                                                                | 4.95                                                                                | 4.92                                                                                | 6.0                                                                                 |
| 300                                                                              | 300                                                                               | 300                                                                               | UL 300<br>CSA 150                                                                 | 300                                                                               | UL 300<br>CSA 150                                                                  | NEC 725, CL2<br>CSA 300                                                             | NEC 725, CL2<br>CSA 300                                                             | 300                                                                                 |
| UL -20 +105<br>CSA -20 +80                                                       | -20 +105                                                                          | -20 +105                                                                          | UL -20 +105<br>CSA -20 +80                                                        | -20 +80                                                                           | -20 +105                                                                           | -20 +80                                                                             | -20 +80                                                                             | -20 +80                                                                             |
| UL E42769/<br>2776<br>CSA option                                                 | UL E42769/<br>2651<br>CSA option                                                  | UL E42769/<br>2651<br>CSA option                                                  | UL E42769/<br>20462<br>CSA option                                                 | UL E65859/<br>20488                                                               | UL E42769/<br>2682<br>CSA option                                                   | UL E118773<br>CL2 (AWM<br>Style 20879)                                              | UL E118773<br>CL2 (AWM<br>Style 20267)                                              | UL E65859/<br>2935                                                                  |