

Round Flat Cable (RFC)

Round to Round

PRODUCT DETAILS

Round Flat Cable (RFC) Jumpers are highly flexible flat conductor connectors combining the properties of flat insulated conductors and round solder pins. The jumpers can be soldered to the PCB or inserted into a connector. The flat insulated conductors act as a vibration damper making the jumpers suitable in the most arduous of applications. The availability of different insulation materials ensure maximum reliability even at high operating temperatures.

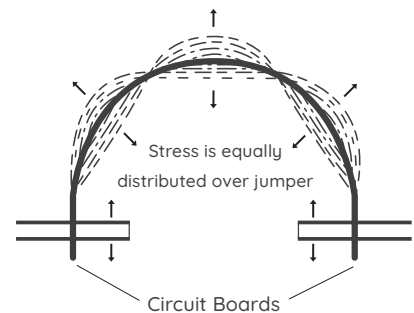
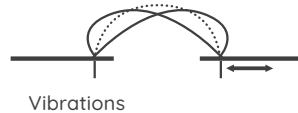
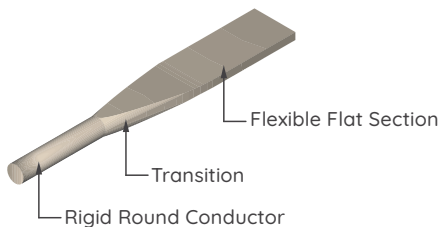
FEATURES

- Highly Flexible
- Light Weight
- Extremely Thin
- Cost-Effective
- Wide Temperature Range
- Suitable for High Vibration Applications

APPLICATIONS

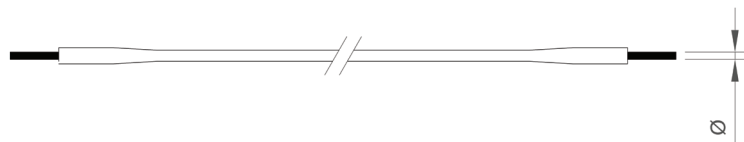
- Domestic Appliance
- Consumer Electronics
- Automotive Industry
- Medical Applications
- Telecommunications
- IT Equipment
- Office Equipment
- Robotics
- Industrial

TRANSITION AND VIBRATION EXAMPLE DRAWINGS

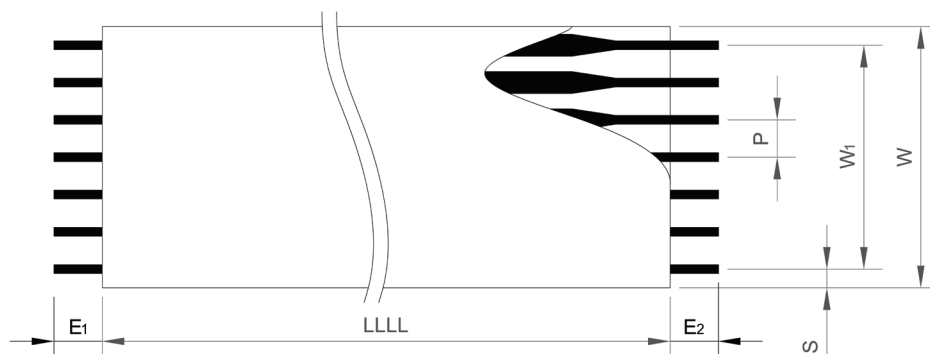


OUTLINE DRAWING

SIDE VIEW



TOP VIEW



25.4MM LENGTH STANDARD STOCK CABLES

| Part no. | No. of Ways | Pitch (P) | Insulator | Insulator Length (LLLL) | Total Length | Exposed Conductor Each End (E1 & E2) |
|---------------|-------------|-----------|-----------|-------------------------|--------------|--------------------------------------|
| RFR02254N0025 | 2 | 2.54mm | Nomex | 25.4mm | 31.4mm | 3mm |
| RFR04254N0025 | 4 | 2.54mm | Nomex | 25.4mm | 31.4mm | 3mm |
| RFR05254N0025 | 5 | 2.54mm | Nomex | 25.4mm | 31.4mm | 3mm |
| RFR06254N0025 | 6 | 2.54mm | Nomex | 25.4mm | 31.4mm | 3mm |
| RFR08254N0025 | 8 | 2.54mm | Nomex | 25.4mm | 31.4mm | 3mm |
| RFR10254N0025 | 10 | 2.54mm | Nomex | 25.4mm | 31.4mm | 3mm |
| RFR12254N0025 | 12 | 2.54mm | Nomex | 25.4mm | 31.4mm | 3mm |
| RFR14254N0025 | 14 | 2.54mm | Nomex | 25.4mm | 31.4mm | 3mm |
| RFR15254N0025 | 15 | 2.54mm | Nomex | 25.4mm | 31.4mm | 3mm |
| RFR16254N0025 | 16 | 2.54mm | Nomex | 25.4mm | 31.4mm | 3mm |
| RFR18254N0025 | 18 | 2.54mm | Nomex | 25.4mm | 31.4mm | 3mm |
| RFR20254N0025 | 20 | 2.54mm | Nomex | 25.4mm | 31.4mm | 3mm |

50.8MM LENGTH STANDARD STOCK CABLES

| Part no. | No. of Ways | Pitch (P) | Insulator | Insulator Length (LLLL) | Total Length | Exposed Conductor Each End (E1 & E2) |
|---------------|-------------|-----------|-----------|-------------------------|--------------|--------------------------------------|
| RFR02254N0051 | 2 | 2.54mm | Nomex | 50.8mm | 56.8mm | 3mm |
| RFR04254N0051 | 4 | 2.54mm | Nomex | 50.8mm | 56.8mm | 3mm |
| RFR05254N0051 | 5 | 2.54mm | Nomex | 50.8mm | 56.8mm | 3mm |
| RFR06254N0051 | 6 | 2.54mm | Nomex | 50.8mm | 56.8mm | 3mm |
| RFR08254N0051 | 8 | 2.54mm | Nomex | 50.8mm | 56.8mm | 3mm |
| RFR10254N0051 | 10 | 2.54mm | Nomex | 50.8mm | 56.8mm | 3mm |
| RFR12254N0051 | 12 | 2.54mm | Nomex | 50.8mm | 56.8mm | 3mm |
| RFR14254N0051 | 14 | 2.54mm | Nomex | 50.8mm | 56.8mm | 3mm |
| RFR15254N0051 | 15 | 2.54mm | Nomex | 50.8mm | 56.8mm | 3mm |
| RFR16254N0051 | 16 | 2.54mm | Nomex | 50.8mm | 56.8mm | 3mm |
| RFR18254N0051 | 18 | 2.54mm | Nomex | 50.8mm | 56.8mm | 3mm |
| RFR20254N0051 | 20 | 2.54mm | Nomex | 50.8mm | 56.8mm | 3mm |

76.2MM LENGTH STANDARD STOCK CABLES

| Part no. | No. of Ways | Pitch (P) | Insulator | Insulator Length (LLLL) | Total Length | Exposed Conductor Each End (E1 & E2) |
|---------------|-------------|-----------|-----------|-------------------------|--------------|--------------------------------------|
| RFR02254N0076 | 2 | 2.54mm | Nomex | 76.2mm | 82.2mm | 3mm |
| RFR04254N0076 | 4 | 2.54mm | Nomex | 76.2mm | 82.2mm | 3mm |
| RFR05254N0076 | 5 | 2.54mm | Nomex | 76.2mm | 82.2mm | 3mm |
| RFR06254N0076 | 6 | 2.54mm | Nomex | 76.2mm | 82.2mm | 3mm |
| RFR08254N0076 | 8 | 2.54mm | Nomex | 76.2mm | 82.2mm | 3mm |
| RFR10254N0076 | 10 | 2.54mm | Nomex | 76.2mm | 82.2mm | 3mm |
| RFR12254N0076 | 12 | 2.54mm | Nomex | 76.2mm | 82.2mm | 3mm |

INSULATOR AND TEMPERATURE RATING

| | | | |
|---------------------|----------|-------|--------|
| Insulation Material | PET Film | Nomex | Kapton |
| Temperature Rating | 105°C | 125°C | 150°C |

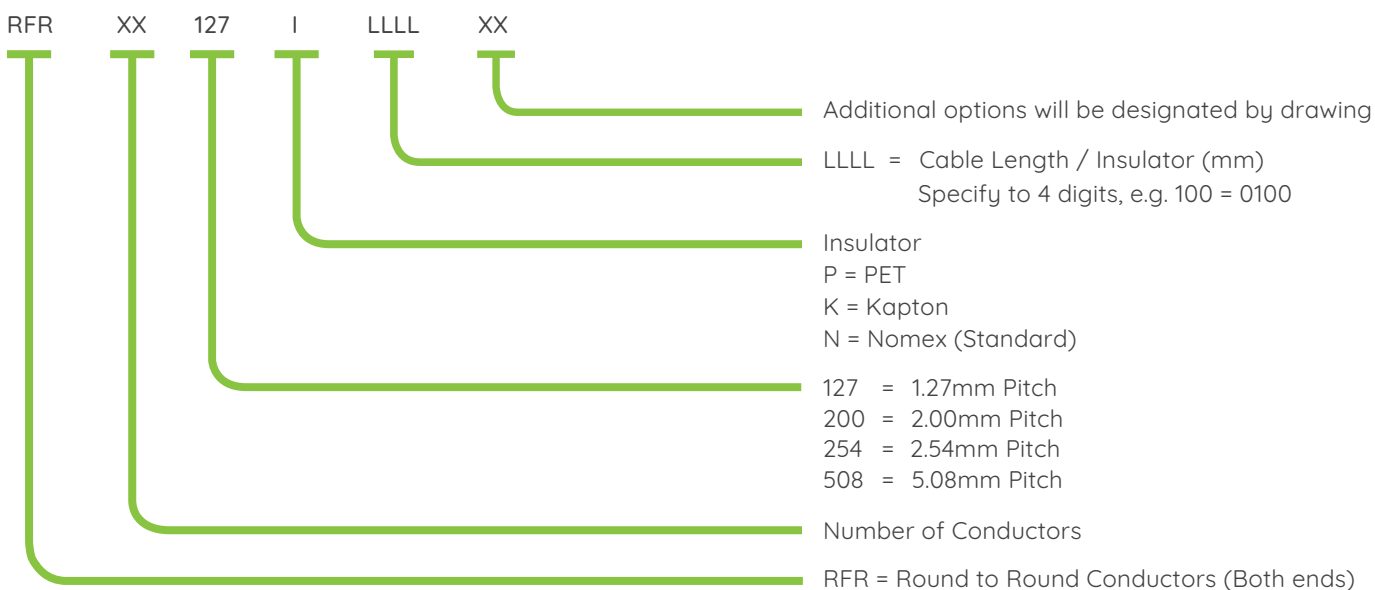
CONDUCTOR SIZES

| | | | | |
|-------------------------------------|----------|--------|--------|--------|
| Pitch | 1.27mm | 2.00mm | 2.54mm | 5.08mm |
| Diameter of Round End | 0.33mm | 0.41mm | 0.51mm | 0.51mm |
| Exposed Conductor Length (Standard) | 3.00mm | | | |
| Conductor / Pin Style | Straight | | | |

ELECTRICAL AND MECHANICAL PROPERTIES

| | | | | |
|----------------------|-----------------|--------|--------|--------|
| Pitch Options | 1.27mm | 2.00mm | 2.54mm | 5.08mm |
| Number of Conductors | 2-50 Pin | | | |
| Length Range | 25-3000mm | | | |
| Flammability Rating | UL94V-0 | | | |
| Conductor Rating | 2A-6A | | | |
| Operating Voltage | 300V | | | |
| Dielectric Strength | 1000V-3000V/Min | | | |

PART NUMBERING BREAKDOWN



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2025 Flex Connection

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