



# GORE® High Flex

FLAT CABLE

## Reliable Flex Life

GORE® High Flex Flat Cables are used in applications where flex life reliability is critical. The reliable performance of GORE® High Flex Flat Cables reduces expensive equipment downtime and field repair due to cable failure. These cables provide reliability and superior performance.

GORE® High Flex Flat Cable can be used in any energy chain or cable track. Cable dividers can be eliminated. GORE® High Flex Flat Cables are the narrowest cable option available and provide a smaller package solution that can reduce cable track size to allow for better utilization of space. Cable track may not even be necessary for short stroke lengths of 0.5 m (20") or less.

### ON-LINE DESIGN TOOL

Gore's on-line design tool provides system designers with step-by-step instructions to configure GORE® High Flex Flat Cable, GORE® High Flex Round Cable, or GORE® Trackless High Flex Cable from common components. The design process is quick and easy. Just select your cable cores from the menu of offerings, choose a configuration, place cores within your cable configuration, and submit the specification to Gore.

The on-line design tool provides options for prototype/one-time builds and production ready builds.

### PRODUCT SPECIFICATIONS

Maximum Self-Supporting Stroke Length <sup>1</sup>	500 mm (20 in.)
Maximum Acceleration	4 G (39 m/s <sup>2</sup> )
Temperature	-40°C to 80°C
Cable Core Types	Signal, Power, Fiber Optic and Pneumatic
Cable Certifications	UL <sup>2</sup> , CSA, and CE

<sup>1</sup> Base plate required. <sup>2</sup> UL Style 21090: 80°C, pneumatic tubes are not UL recognized



[gore.com/designacable](https://gore.com/designacable)

### KEY FEATURES

- Proven flex life greater than 20 million cycles at 50 mm (2") bend radius
- Clean, non-particulating jacket
- Easy on-line design tool
- Cable track may not be needed for short stroke lengths of 0.5 m (20") or less
- Cables can be stacked together to further reduce the overall footprint

### KEY BENEFITS

- Reduces expensive equipment downtime
- Requires less space than round cable
- Smaller package size, reducing overall size and weight of complete cable track solution



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## COMMON CORES

**201**  
Formerly A



**Shielded Power Cable**  
3 x AWG 16  
ePTFE binder over shield (not an insulator)  
Colors: yel-grn, red, wht  
Ratings: 600V rms  
Dimensions: 5.0mm (0.20")

**202**  
Formerly B



**Shielded Power Cable**  
4 x AWG 18  
ePTFE binder over shield (not an insulator)  
Colors: yel-grn, red, wht, blu  
Ratings: 600V rms  
Dimensions: 4.7mm (0.18")

**203**  
Formerly C



**Shielded Power Cable**  
4 x AWG 20  
ePTFE binder over shield (not an insulator)  
Colors: yel-grn, red, wht, blu  
Ratings: 600V rms  
Dimensions: 4.5mm (0.18")

**204**  
Formerly D



**Unshielded Signal Cable**  
7 Twisted Pairs AWG 26  
Colors: wht-blk/blk, wht-brn/brn, wht-red/red, wht-org/org, wht-yel/yel, wht-grn/grn, wht-blu/blu  
Ratings: 300V rms  
Dimensions: 4.0mm (0.16")

**205**  
Formerly E



**Shielded Signal Cable**  
5 Twisted Pairs AWG 26  
ePTFE binder over shield (not an insulator)  
Colors: wht-blk/blk, wht-brn/brn, wht-red/red, wht-org/org, wht-yel/yel  
Ratings: 300V rms  
Dimensions: 4.2mm (0.17")

**206**  
Formerly F



**Signal Cable**  
3 Shielded Twisted Pairs AWG 26  
300V rated insulation over shield  
Colors: wht-blk/blk, wht-brn/brn, wht-red/red  
Ratings: 300V rms  
Dimensions: 4.6mm (0.18")

**207**  
Formerly G



**Video Cable / 75 ohm Cable**  
3 Coaxes  
300V rated insulation over shield  
Colors: all white  
Ratings: 75 Ohm RG 179B Equivalent  
Dimensions: 4.8mm (0.19")

**208**  
Formerly H



**Video Cable / 50 ohm Cable**  
3 Coaxes  
300V rated insulation over shield  
Colors: all white  
Ratings: 50 Ohm RG 316 Equivalent  
Dimensions: 5.0mm (0.19")

**218**  
Formerly S



**Encoder Cable (Heidenhain Compatible)**  
4 Twisted Pairs AWG 26  
Colors: brn/grn, yel/vio, grey/pink, red/blk  
4 X AWG 24  
Colors: wht, brn-grn, wht-grn, blu  
ePTFE binder over shield (not an insulator)  
Ratings: 300V rms  
Dimensions: 5.0 mm (0.20")

**209**  
Formerly I



**Ethernet / Cat 5e Equivalent**  
4 Twisted Pairs with overall shield AWG 26  
ePTFE binder over shield (not an insulator)  
Colors: wht-brn/brn, wht-org/org, wht-blu/blu, wht-grn/grn  
Ratings: 100 Ohm +/- 15 Ohm 50V rms  
Dimensions: 4.7mm (0.18")

**210**  
Formerly J



**IEEE 1394a / IEEE 1394b**  
2 Shield Twisted Pairs AWG 28,  
2 Conductors AWG 22 with overall shield  
ePTFE binder over shield (not an insulator)  
Colors: red x grn, blu x org, blk, wht  
Ratings: IEEE 1394a/IEEE 1394b  
Dimensions: 5.7mm (0.22")

**211**  
Formerly K



**Shielded Power**  
2 x AWG 22  
ePTFE binder over shield (not an insulator)  
Colors: blk/wht  
Ratings: 300V rms  
Dimensions: 2.7mm (0.11")

**212**  
Formerly L



**Tube**  
4.3mm ID / 6.4mm OD (0.17" ID / 0.25" OD)  
Polyurethane 85 Shore A  
Color: Clear  
Ratings: 70 psi max at 73° F  
Dimensions: 6.2mm (0.24")

**213**  
Formerly M



**Tube**  
2.5mm ID / 4.0mm OD (0.10" ID / .16" OD)  
Polyurethane 95 Shore A  
Color: Clear  
Ratings: 85 psi max at 73° F  
Dimensions: 4.0mm (0.16")

**214**  
Formerly N



**Tube**  
4.0mm ID / 6.0mm OD (0.16" ID / 0.24" OD)  
Polyurethane 85 Shore A  
Color: Clear  
Ratings: 70 psi max at 70° F  
Dimensions: 6.0mm (0.24")

**215**  
Formerly P



**Fiber Optic**  
Multi-Mode Glass Fiber  
Thermoplastic Jacket  
Color: Black/ Black  
Strain Relief: Aramid Fiber Braid  
Ratings: 62.5 / 125 micron  
Dimensions: 2.5mm (0.10")

**216**  
Formerly Q



**Shielded Power or Ground Cable**  
1 x AWG 12  
ePTFE binder over shield (not an insulator)  
Color: gray  
Ratings: 600V rms  
Dimensions: 4.0mm (0.16")

**217**  
Formerly R



**Shielded Power Cable W/Thermister**  
4 x AWG 16  
Colors: yel-grn, red, wht, blk  
2 x AWG 22  
Colors: blk/wht  
ePTFE binder over the shield (not an insulator)  
Ratings: 600V rms (AWG 16) / 300V rms (AWG 22)

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