

# CO-FHF (FLEX)

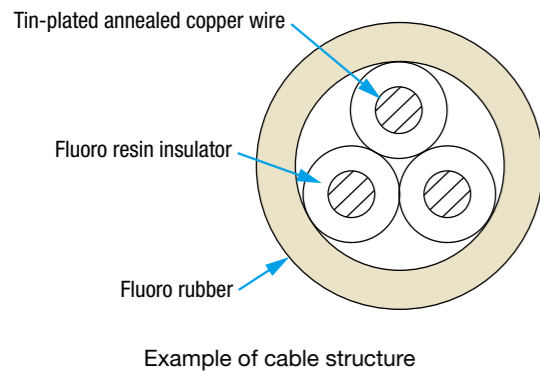


## Features

- Utilizes fluoro rubber with superior abrasion resistance for coating the outermost layer.
- Offers superior heat resistance (withstand temperature of 150°C).
- Also offers superior oil resistance.

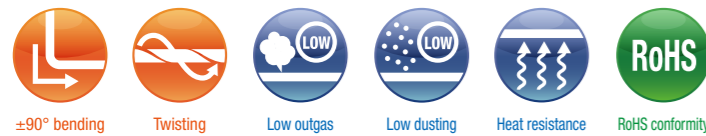
## Use

- Power supply and signal transmission in clean environments such as semiconductor manufacturing facilities



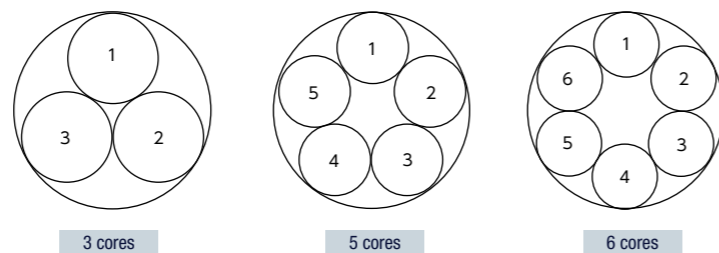
## Characteristics

- Rating temperature: 150°C
- Withstand voltage: 2,000 VAC/5 min
- Rating voltage: 300 V
- Min. insulating resistance (at 20°C): 1,000 MΩ·km



## Wire core identification

Wire core No.	Insulator color
1	Black
2	White
3	Red
4	Green
5	Yellow
6	Brown



## Cable structure and performance

### Multiple core type of CO-FHF (FLEX)

AWG size	Configuration (No./No./mm)	Insulator			Max. conductor resistance (at 20 °C) (Ω/km)	No. of wire cores	Finished outer diameter (mm)	Approx. mass (kg/km)	Allowable current (A)	Bending radius (mm)
		Outer diameter (mm)	Standard thickness (mm)	Outer diameter (mm)						
20 (0.5mm <sup>2</sup> )	104/0.08	0.94	0.25	1.44	40.1	6	5.6	61	6.4	56
20 (0.5mm <sup>2</sup> )	104/0.08	0.94	0.25	1.44	40.1	3	4.4	35	8.1	44
16 (1.25mm <sup>2</sup> )	7/38/0.08	1.71	0.28	2.27	16.1	5	7.4	110	12.3	74

\*The above-mentioned structure is a representative example. For other sizes and combinations, contact our salesperson in charge.  
\*The allowable current in the table above is of a value at ambient temperature of 40°C for single line wiring in air.

## Example of product designation

### CO-FHF(FLEX) 6 X 20AWG(104/0.08)



## Fluoro rubber sheath material for the FHF Series

The fluoro rubber sheath material of the FHF Series offers superior abrasion resistance and heat resistance.

### ① Evaluation of abrasion resistance

Edge: 3-blade used  
Test speed: 30 times/min  
Load: 1 kg

After 300 cycles

After 500 cycles

PVC sheathed product  
\*A large amount of shavings is generated and dust is scattered.

Fluoro rubber sheathed product  
\*Shavings are not generated so much and almost no dust is scattered.

### ② Material characteristics

Item	Unit	Fluoro rubber	Oil and heat resistant PVC
Hardness	Shore-A	90	70
Tensile strength	MPa	17	18
Cold-resistant temperature	°C	-50	-20
Heat-resistant temperature	°C	150	80~105
Oil resistance	—	◎	○