

# UL2464 (FLEX), UL2464-SB (FLEX)

Conformity standard **UL 758**

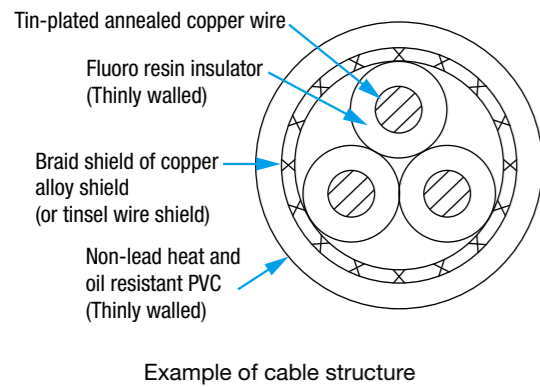


### Features

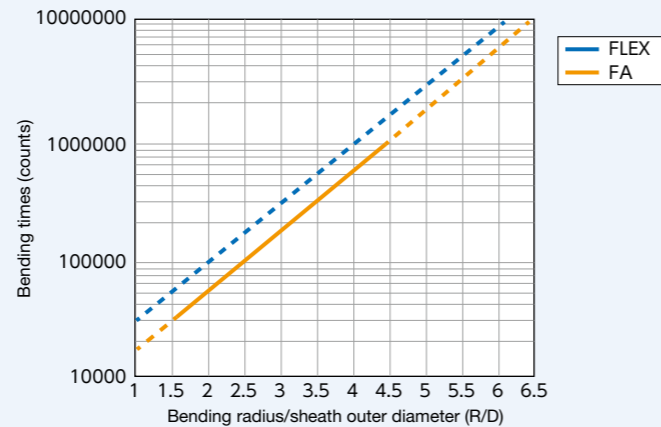
- Achieves a diameter 10% to 15% smaller than our standard product (FA Series) by applying an extrusion technique for thin wall thickness.
- Realizes a minimized bending radius by means of our original braid shield using copper alloy and tinsel wire.
- Enables customization for your desired UL style and outer diameter.

### Use

- Power supply and signal transmission for robots and machine tools where wiring in a small space is required



Bending resistance of about 10 million times equivalent to FA Series (bending radius R = 6D)



Wire disconnection life in right-left 90° bending (FLEX and FA Series)

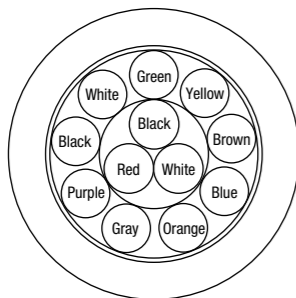
\*The values shown above are not guaranteed values, but actual measurements.

### Characteristics

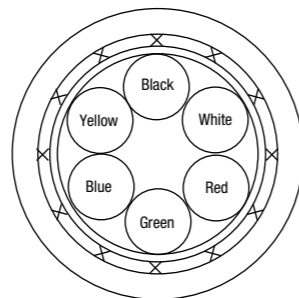
- Rating temperature: 80°C
- Withstand voltage: 2,000 VAC/5 min
- Rating voltage: 300 V
- Min. insulating resistance (at 20°C): 1,000 MΩ·km



### Wire core identification



UL2464(FLEX)12×23AWG(60/0.08)



UL2464-SB(FLEX)6×23AWG(60/0.08)

### Cable structure and performance

#### Comparison with standard product (FA Series)

(Case of 12 × 23 AWG)

UL2464 (FLEX)12×23AWG (60/0.08)

Finished outer diameter being 14% smaller

AWG size	Conductor		Insulator		Max. conductor resistance (at 20 °C) (Ω/km)	No. of wire cores	Finished outer diameter (mm)	Approx. mass (kg/km)	Bending radius (mm)
	Configuration (No./No./mm)	Outer diameter (mm)	Standard thickness (mm)	Outer diameter (mm)					
23 (0.09mm <sup>2</sup> )	60/0.08	0.72	0.15	1.02	69.5	12	6.0	65	36

UL2464 (FA)12×23AWG (60/0.08)

AWG size	Conductor		Insulator		Max. conductor resistance (at 20 °C) (Ω/km)	No. of wire cores	Finished outer diameter (mm)	Approx. mass (kg/km)	Bending radius (mm)
	Configuration (No./No./mm)	Outer diameter (mm)	Standard thickness (mm)	Outer diameter (mm)					
23 (0.3mm <sup>2</sup> )	60/0.08	0.72	0.2	1.12	69.5	12	7.6	83	46

(Case of 6 × 23 AWG)

UL2464-SB (FLEX)6×23AWG (60/0.08)

Finished outer diameter being 15% smaller

AWG size	Conductor		Insulator		Max. conductor resistance (at 20 °C) (Ω/km)	No. of wire cores	Finished outer diameter (mm)	Approx. mass (kg/km)	Bending radius (mm)
	Configuration (No./No./mm)	Outer diameter (mm)	Standard thickness (mm)	Outer diameter (mm)					
23 (0.09mm <sup>2</sup> )	60/0.08	0.72	0.15	1.02	69.5	6	5.2	48	32

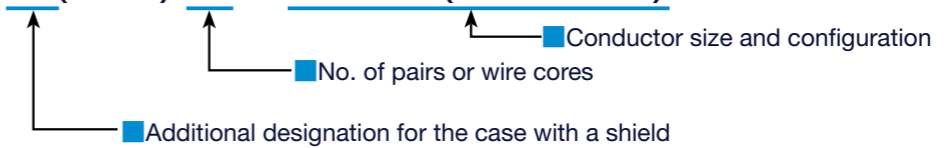
UL2464-SX (FA)6×23AWG (60/0.08)

AWG size	Conductor		Insulator		Max. conductor resistance (at 20 °C) (Ω/km)	No. of wire cores	Finished outer diameter (mm)	Approx. mass (kg/km)	Bending radius (mm)
	Configuration (No./No./mm)	Outer diameter (mm)	Standard thickness (mm)	Outer diameter (mm)					
23 (0.09mm <sup>2</sup> )	60/0.08	0.72	0.2	1.12	69.5	6	6.1	53	37

\*The above-mentioned structure is a representative example. For other sizes and combinations, contact our salesperson in charge.

### Example of product designation

UL2464-SB(FLEX) 4P X 16AWG(7/38/0.08)



#### Correspondent UL style of FLEX Series

Sheath material	Rating	
	Temperature (°C)	Voltage (V)
UL20276	80	30
UL2464		300
UL2570		600
UL2517	105	300
UL2586	105	600

The FLEX Series can be customized to meet your desired UL style and outer diameter. We can also handle composite types that combine different AWG sizes.