

# SMA & SMBL - Multicore cables

## Contact

Cables for Industrial Applications  
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Unscreened (SMA) or screened (SMBL) and jacketed multicore cables

## DESCRIPTION

## APPLICATIONS

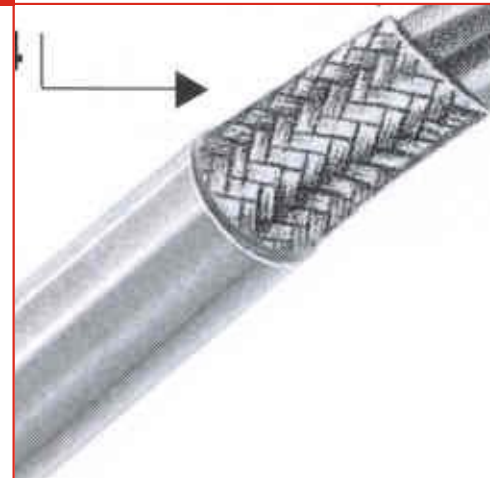
Flexible cables designed for internal wiring in equipment, found in widely varying markets (instrumentation, process-control, remote control, electronic industrial equipment,...).

## CONSTRUCTION

1. CONDUCTOR  
stranded tinned copper wires
2. INSULATION  
flexible PVC
3. LAY UP  
polyester tape (for screened cable only)
4. SCREEN  
tinned copper braid (for screened cables only)
5. OUTER JACKET  
PVC

## Colour coding of the cores

See the attached file.



## STANDARDS

National NF C 32-070/C2



Cable flexibility  
**Flexible**



Operating temperature, range  
-20 .. 80 °C



RoHS compliant  
**Yes**



Electro magnetic interference resistance  
**Yes**

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## CHARACTERISTICS

### Construction characteristics

Conductor material	Tinned copper
Type of conductor	Circular, stranded
Insulation	Flexible PVC
Outer sheath	PVC

### Electrical characteristics

Maximum operating voltage	500 V
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### Mechanical characteristics

Cable flexibility	Flexible
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### Usage characteristics

Operating temperature, range	-20 .. 80 °C
RoHS compliant	Yes
Electro magnetic interference resistance	Yes

## SMA/SMBL COLOUR CODING

Core. n°	Plain colour	Core n°	Plain colour/ Ring colour	Core. n°	Plain colour	Core n°	Plain colour/ Ring colour
1	White	11	White/Blue	21	Blue/Brown	31	Yellow/Green
2	Light Blue	12	White/Yellow	22	Blue/Black	32	Yellow/Grey
3	Yellow	13	White/Brown	23	Blue/Red	33	Yellow/Orange
4	Brown	14	White/Black	24	Blue/Green	34	Yellow/Purple
5	Black	15	White/Red	25	Blue/Grey	35	Brown/Black
6	Red	16	White/Green	26	Blue/Orange	36	Brown/Red
7	Green	17	White/Grey	27	Blue/Purple	37	Brown/Green
8	Grey	18	White/Orange	28	Yellow/Brown		
9	Orange	19	White/Purple	29	Yellow/Black		
10	Purple	20	White/Yellow	30	Yellow/Red		

## DESCRIPTION OF THE CORE

CONDUCTOR			Ø
Cross section	Gauge	Construction	Insulation
mm <sup>2</sup>	AWG	n x Ø mm	mm
0.22	24	7 x 0.20	1.04
0.34	22	7 x 0.25	1.24
0.6	20	19x 0.20	1.65
0.93	18	19 x 0.25	1.9
1.34	16	19 x 0.30	2.27