

TFL 104 5, S1Z1-K

Product Information



Conductor

Stranded copper wires according to IEC 60228, class 5

Tinned copper wires: $\leq 10\text{AWG}$ ($\leq 6 \text{ mm}^2$)

Bare copper wires: $\geq 8\text{AWG}$ ($\geq 10 \text{ mm}^2$)

Insulation

Flame retardant FRPE / TPE.

Insulation colors, see table on page 2.

Operating voltage

600 V

Operating temperature

Min -40 °C

Max +90 °C

References

IEC 60228, Conductor resistance.

UL 758, AWM style 10900.

UL 1581 sec. 1080, VW-1

UL 1685, Vertical Tray Flame Test

IEC 60332-3-24, Flame propagation

IEC 61034, Smoke density

IEC 60754, Halogen content

Application

Flexible single conductor with halogen free insulation, for internal wiring and grounding of equipment.

To be used under dry conditions.

Technical data

Part no.	Diameter, nom. (mm)		Weight/100m (kg)	Resistance (Ω/km)	
	Conductor	Insulation			
TFL 104 501/	0,85 mm ² (18 AWG)	1,2	2,4	1,2	21,8
TFL 104 502/	1,5 mm ² (16 AWG)	1,6	3,2	2,2	13,7
TFL 104 503/	2,5 mm ² (14 AWG)	1,9	3,5	3,1	8,21
TFL 104 504/	4 mm ² (12 AWG)	2,7	4,3	4,6	5,09
TFL 104 505/	6 mm ² (10 AWG)	3,1	4,7	6,4	3,39
TFL 104 506/	10 mm ² (8 AWG)	4,2	5,8	11,1	1,91
TFL 104 507/	16 mm ² (6 AWG)	5,4	7,8	17,3	1,21
TFL 104 508/	25 mm ² (4 AWG)	7,2	9,6	27,0	0,780
TFL 104 509/	35 mm ² (2 AWG)	8,0	10,4	35,0	0,554
TFL 104 510/	50 mm ² (1 AWG)	9,5	12,7	49,0	0,386
TFL 104 511/	70 mm ² (2/0 AWG)	11,0	14,2	66,0	0,272
TFL 104 512/	95 mm ² (3/0 AWG)	12,5	15,7	91,4	0,206
TFL 104 514/	150 mm ² (250kcmil)	16,0	19,7	140,0	0,129

All the values given are nominal

Ordering Information

Part no	Conductor size	Standard length (m)	Package	Total weight (kg)
TFL 104 501/	0,85 mm ² (18 AWG)	100	Coil	1,2
TFL 104 502/	1,5 mm ² (16 AWG)	100	Coil	2,2
TFL 104 503/	2,5 mm ² (14 AWG)	100	Coil	3,1
TFL 104 504/	4 mm ² (12 AWG)	100	Coil	4,6
TFL 104 505/	6 mm ² (10 AWG)	100	Coil	6,4
TFL 104 506/	10 mm ² (8 AWG)	500	Bobbin	61
TFL 104 507/	16 mm ² (6 AWG)	300	Bobbin	55
TFL 104 508/	25 mm ² (4 AWG)	500	K6	147
TFL 104 509/	35 mm ² (2 AWG)	500	K6	189
TFL 104 510/	50 mm ² (1 AWG)	500	K7	265
TFL 104 511/	70 mm ² (2/0 AWG)	500	K7	352
TFL 104 512/	95 mm ² (3/0 AWG)	500	K8	482
TFL 104 514/	150 mm ² (250kcmil)	250	K9	384

Insulation colours

Number	Suffix Colour
/00	Black
/01	Brown
/02	Red
/03	Orange
/04	Yellow
/05	Green
/06	Blue
/07	Violet
/08	Grey
/09	White
/45	Yellow/Green

Note: All colors may not be available.

We reserve the right for alterations due to continual product development and/or changes in standards.