

# FRNC power cable BS6724



**Application:** Distribution cable for industry constructions and switching boxes. For fixed installation inside of buildings, direct burial in the ground, in water as well as in concrete and for heavy duty mechanical load.

## Construction and technical data:

<b>Standard:</b>	BS 6724
<b>Conductor material:</b>	copper, bare
<b>Conductor construction:</b>	Class 2 = stranded
<b>Insulation:</b>	XLPE
<b>Material inner sheath:</b>	halogen-free
<b>Armour:</b>	steel- or aluminium-wires
<b>Sheathing material:</b>	FRNC-compound HM1
<b>Colour of outer sheath:</b>	black
<b>Flame-retardant:</b>	VDE 0482-266-2-4/IEC 60332-3-24 (Cat. C)
<b>Halogen-free:</b>	DIN EN 50267/IEC 60754
<b>For outdoor use:</b>	yes
<b>Max. temperature at conductor, °C:</b>	90 °C
<b>Permitted outer cable temperature, fixed, °C:</b>	-5 - +70 °C
<b>Permitted outer cable temperature, moved, °C:</b>	0 - 90 °C
<b>Bending radius, fixed installation:</b>	6 x Ø
<b>Bending radius, moving application:</b>	12 x Ø



*The products and information presented here are for technical calculation only. They are subject to technical progress and in no way represent the ability of shipment. Outer diameters are approximately.*

Cu/XLPE/LSZH/AWA/LSZH (without protective conductor and aluminium wire armoured)

<b>Nominal voltage U<sub>o</sub>:</b>	0.6 kV
<b>Nominal voltage U:</b>	1 kV
<b>Test voltage:</b>	4 kV
<b>Protective conductor:</b>	no
<b>Core identification:</b>	BS 6724

part no.	part name		RI [Ohm/km]	I <sub>bl</sub> [A]	Ø [mm]	Cu	G [kg]
013048	01X50 RM BK	RM	0.387	222	17.5	480	708
012969	01X70 RM BK	RM	0.268	285	20.2	680	970
013603	01X185 RM BK	RM	0.0991	529	30	1820	2330
013677	01X400 RM BK	RM	0.047	815	40.4	3840	4690

Cu/XLPE/LSZH/SWA/LSZH (without protective conductor)

<b>Nominal voltage U<sub>o</sub>:</b>	0.6 kV
<b>Nominal voltage U:</b>	1 kV
<b>Test voltage:</b>	4 kV
<b>Protective conductor:</b>	no
<b>Core identification:</b>	BS 6724

part no.	part name		RI [Ohm/km]	I <sub>bl</sub> [A]	I <sub>be</sub> [A]	Ø [mm]	Cu	G [kg]
013005	19X1.5 RM BK	RM	12.1	25	21	22.2	274	1120
012655	03X2.5 RM BK	RM	7.41	33	28	14.1	72	405
012659	04X2.5 RM BK	RM	7.41	33	28	15.1	96	465
012661	03X4 RM BK	RM	4.61	44	36	15.3	115.2	495
012663	03X6 RM BK	RM	3.08	56	44	16.6	173	600
012539	04X35 RM BK		0.524	162	115	32.1	1344	2580
012858	04X240RM BK		0.0754	546	324	63	9520	13000

Cu/XLPE/LSZH/SWA/LSZH (with protective conductor and steel wire armoured, galvanized)

<b>Nominal voltage U<sub>o</sub>:</b>	0.6 kV
<b>Nominal voltage U:</b>	1 kV
<b>Test voltage:</b>	4 kV
<b>Protective conductor:</b>	yes
<b>Core identification:</b>	BS 6724

part no.	part name		RI [Ohm/km]	I <sub>bl</sub> [A]	I <sub>be</sub> [A]	Ø [mm]	Cu	G [kg]
012819	03G2.5 RM BK	RM	7.41	39	33	14.1	72	390
014032	12G2.5 RM BK	RM	7.41	33	28	22.4	288	1024
013638	03G10 RM BK	RM	1.83	90	71	19.5	288	866
013599	05G16 RM BK	RM	1.15	99	75	19.7	768	928
013601	05G35 SM BK		0.524	162	115	33.1	1680	3738
013708	04G95 RM BK		0.193	304	197	41.7	3720	5510

RI	Conductor resistance
I <sub>bl</sub>	Ampacity in air (30 °C)
I <sub>be</sub>	Ampacity in ground (20 °C)
Ø	outer diameter approx.
Cu	Copper weight (GER)
G	net weight per 1000