

NSGAFÖU Flexible Cable - 1.5mm² to 500mm²



Description

NSGAFÖU is a single core flexible rubber cable for power and general wiring. Widely used in Automation & Process Control industry, in switch cabinets to 1.8/3kV. NSGAFÖU is recommended for wiring railway and buses for earth-fault-proof routing.

NSGAFÖU is suitable to be laid in dry rooms as it provides superior protection against short circuits.

Key Features



Voltage Rating
1.8/3 (3.6)kV



Minimum Bending Radius
Fixed: 4 x overall diameter
Flexing: 5 x overall diameter



Flame Retardancy
BS EN 60332-1-2



Temperature Limits
Fixed -40°C to +90°C
Flexing -25°C to +90°C

Standards

- IEC/EN 60332-1-2
- BS EN/IEC 60228
- VDE 0207 PT21
- VDE0250 PT602
- VDE 0207 PT20

Construction

- **Conductor:** Class 5 tinned copper
- **Insulation:** EPR (Ethylene Propylene Rubber)
- **Outer Sheath:** Polychloroprene Rubber (CR)

QA Lab

Cleveland Cable Test & Training Lab

Our state-of-the-art cable testing facility ensures that every cable meets the highest standards of quality and compliance through continuous, rigorous testing. Where applicable, cables are independently tested and certified by BASEC to ensure full compliance.



CPR

Cleveland Cable Company is committed to compliance with the Construction Products Regulation (CPR). Where applicable, all cables manufactured after 1st July 2017 have been assessed in accordance with CPR requirements, with full supporting documentation available.



Our Sustainability Commitment

We are committed to the journey to Net Zero as a business partner, an employer and a community member.

By thinking and acting sustainably, we deliver excellent customer service while reducing carbon emissions in collaboration with our customers and suppliers.



ecovadis

Cleveland Cable Company has been independently assessed by EcoVadis, a globally recognised provider of business sustainability ratings. Our score places us among the top 35% of companies evaluated worldwide, reflecting our strong commitment to environmental, social, and ethical performance

ecovadis

NSGAFOU Flexible Cable - 1.5mm² to 500mm² - Dimensions

Reference	Conductor Size (mm2)	No Of Cores	Mean Overall Diameter (mm) Lower Limit	Mean Overall Diameter (mm) Upper Limit	Weight(Kg/Km)
NSGAFOU1/5	1.5	1	5.5	7	51
NSGAFOU2/5	2.5	1	5.9	7.5	63
NSGAFOU4	4	1	6.4	8	82
NSGAFOU6	6	1	7	8.6	103
NSGAFOU10	10	1	8.2	10	159
NSGAFOU16	16	1	9.2	11.1	2219
NSGAFOU25	25	1	11.3	13.4	335
NSGAFOU35	35	1	12.5	14.6	435
NSGAFOU50	50	1	14.1	16.4	582
NSGAFOU70	70	1	15.9	18.3	757
NSGAFOU95	95	1	18.2	20.8	1040
NSGAFOU120	120	1	19.6	22.4	1289
NSGAFOU150	150	1	21.7	24.7	1581
NSGAFOU185	185	1	23.6	26.7	1895
NSGAFOU240	240	1	26.3	29.7	2452
NSGAFOU300	300	1	29.3	32.9	2998
NSGAFOU400	400	1	32.5	36.4	4200
NSGAFOU500	500	1	36.5	40.7	5500



NSGAFÖU FLEXIBLE CABLE–ELECTRICAL CHARACTERISTICS

CONDUCTOR SIZE	CURRENT CARRYING CAPACITY For ambient temperature of 30°C and conductor heated at 90°C		CONDUCTOR PROPERTIES	
	IN AIR	IN CONDUIT	MAXIMUM DIAMETER OF WIRES IN CONDUCTOR	MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C
(MM ²)	(AMPS)	(AMPS)	(MM)	(Ω/KM)
2	30	15	0.26	13.7
3	41	21	0.26	8.21
4	55	29.00	0.31	5.09
6	70	37.00	0.31	3.39
10	98	52.00	0.41	1.95
16	132	70.00	0.41	1.24
25	176	93.00	0.41	0.80
35	218	115.00	0.41	0.57
50	276	146.00	0.41	0.39
70	347	185.00	0.51	0.28
95	416	221.00	0.51	0.21
120	488	259.00	0.51	0.16
150	566	301.00	0.51	0.13
185	644	342.00	0.51	0.11
240	775	412.00	0.51	0.08
300	898	467.00	0.51	0.07
400	1060	557.00	0.51	0.05
500	1250	662.00	0.61	0.04

THE INFORMATION CONTAINED WITHIN THIS DATASHEET IS FOR GUIDANCE ONLY AND IS SUBJECT TO CHANGE WITHOUT NOTICE OR LIABILITY. WE BELIEVE THE INFORMATION IS CORRECT AT THE TIME OF PUBLICATION. PLEASE NOTE WHEN SELECTING CABLE ACCESSORIES THAT ACTUAL CABLE DIMENSIONS MAY VARY DUE TO MANUFACTURING TOLERANCES.