

AUXILLARY SWA LSNH (H694-XLSF) CU / XLPE / LSNH / SWA / LSNH



Sales Office: Millfield Industrial Estate, Arksey Lane, Bentley, Doncaster, South Yorkshire, DN5 0SJTel: 01302 821700Fax: 01302 821701Email: sales@doncastercables.com



CU / XLPE / LSNH / SWA / LSNH

Manufactured to BS 6724 Table 18. (LSNH = Low Smoke Non Halogen)

Plain Annealed Copper Conductor / XLPE Insulated / LSNH Bedded / Galvanised Steel Wire Armour / LSNH Sheathed. 600/1000V

Conductor :	Plain Annealed Copper Class 2 Stranded to BSEN 60228					
Insulation:	Thermosetting XLPE Type GP8 to BS 7655-1.3					
Bedding:	Compatible LSNH Polymeric Material (LSNH)					
Steel Wire Armour:	Galvanised Steel Wire					
Sheathing:	LSNH Type LTS1 to BS 7655-6.1					
Current Ratings:	For current ratings refer to table 4E4A of BS7671					
	IEE Wiring Regulations Seventeenth Edition.					

These cables are designed to be used in installations where smoke and acid gas emission would pose a major hazard in the event of a fire.

Auxiliary Steel Wire Armoured cables are predominantly used for industrial wiring and signalling. They are designed to be used in industrial areas, areas with higher risk of mechanical stress/damage, in and around buildings and other similar environments.

These cables are designed to be installed in air, clipped to surface, on cable tray/ ladder work, embedded in concrete and buried direct or in ducting underground

STANDARD CORE COLOURS

MINIMUM OPERATING TEMPERATURE

-15°C

MINIMUM BENDING RADIUS 8 x Ø

ASTER CABLES



AUXILLARY SWA LSNH (H694-XL) LSF CU / XLPE / LSNH / SWA / LSNH

Reference Number	Number and Nominal Cross Sectional Area of Conductor (mm ²)	Nominal Stranding of Conductor (mm)	Nominal Radial Thickness of insulation (mm)	Nominal Radial Thickness of bedding (mm)	Nominal Diameter of Armour Wire (mm)	Nominal Radial Thickness of sheath (mm)	Approximate Overall Diameter (mm)	Approximate Weight (kg/km)	Recommended Gland Size
7C1.5LSF	7 x 1.5	7/0.53	0.6	0.8	0.9	1.4	15.2	506	205
7C2.5LSF	7 x 2.5	7/0.67	0.7	0.8	0.9	1.4	17.1	618	20
7C4.0LSF	7 x 4.0	7/0.85	0.7	0.8	1.3	1.5	19.7	904	25
7C6.0LSF *	7 x 6.0	7/1.04	0.7	0.8	1.3	1.6	21.3	1110	25
7C710LSF *	7 x 10.0	7/1.35	0.7	0.8	1.6	1.6	25.6	1720	25
	_								
12C1.5LSF	12 x 1.5	7/0.53	0.6	0.8	1.3	1.5	19.4	854	25
12C2.5LSF	12 x 2.5	7/0.67	0.7	0.8	1.3	1.6	22.4	1080	25
12C4.0LSF	12 x 4.0	7/0.85	0.7	1.0	1.6	1.6	25.7	1550	32
19C1.5LSF	19 x 1.5	7/0.53	0.6	0.8	1.3	1.6	22.2	1120	25
19C2.5LSF	19 x 2.5	7/0.67	0.7	1.0	1.6	1.7	26.6	1570	25
19C4.0LSF	19 x 4.0	7/0.85	0.7	1.0	1.6	1.7	29.3	2050	32
27C1.5LSF**	27 x 1.5	7/0.53	0.6	1	1.6	1.7	26.7	1120	32
27C2.5LSF**	27 x 2.5	7/0.67	0.7	1.0	1.6	1.8	30.7	1570	32

* Manufactured generally to BS6724, not BASEC approved ** Not BASEC approved

ASTER CABLES

Weight and dimensional information is provided as an approximate guide only.

Doncaster Cables AUXILLARY SWA LSNH (H694-XL) LSF CU / XLPE / LSNH / SWA / LSNH

Multicore Loading

In practice, the majority of cores in a multicore control cable of 7 cores and above carry only small or intermittent current and a current rating based on the assumption that all cores are equally loaded is quite unrealistic. In most cases only two cores, the line and neutral feed cores are likely to approach the maximum permitted loading. The current rating for twin core cable can therefore be used in these cables.

Where more than two cores are known to carry an appreciable current, the multiplying factors applicable to the two core ratings are given below.

The normal current rating for twin cable may also be used in cases where the number of cores carrying appreciable current does not exceed the square root of the total number of cores in the cable.

Number of loaded cores	3	4	5	6	7	10	12	14
Multiplying factor	0.87	0.78	0.72	0.67	0.63	0.56	0.53	0.51
Number of loaded cores	19	24	27	30	37	44	46	48
Multiplying factor	0.45	0 4 2	0 40	0 39	0.36	0.34	033	0 33

DONCASTER CABLES

STIER CABL

Weight and dimensional information is provided as an approximate guide only.



Product Certification Schedule

Schedule No:	040/001/364
Licensee:	DONCASTER CABLES, MILLFIELDS INDUSTRIAL ESTATE, ARKSEY LANE, BENTLEY, DONCASTER, SOUTH YORKSHIRE, UNITED KINGDOM, DN5 0SJ
Factory:	DONCASTER CABLES, MILLFIELDS INDUSTRIAL ESTATE, ARKSEY LANE, BENTLEY, DONCASTER, SOUTH YORKSHIRE, UNITED KINGDOM, DN5 0SJ
Specification:	BS 6724:2016 Electric cables - Thermosetting insulated, armoured cables of rated voltages of 600/1 000 V and 1 900/3 300 V for fixed installations, having low emission of smoke and corrosive gases when affected by fire.
Type of Cable:	Table 9 Multicore auxiliary 600/1 000 V cables with copper conductors
Range of Approval:	 1.5sqmm to 4sqmm nominal cross-sectional area of conductors inclusive. 7-core to 19-core inclusive. Class 2 conductor. Sheath - LTS1. Insulation - GP8.
Origin Thread:	BLUE/BROWN/GREY/ORANGE
Origin Mark:	DONCASTER CABLES



PERMISSIBLE MARKS



YELLOW ACETATE THREAD

Please refer to the BASEC Product Certification Requirements

Expiry Date: 05/02/2020

Signed for and on behalf of the British Approvals Service for Cables

Date 31/07/2018

This Certificate and Schedule(s) remains the property of BASEC, and shall be returned when required.

