

AUXILLARY SWA (H694-XL) CU / XLPE / PVC / SWA / PVC



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Manufactured to BS 5467 Table 18

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

Plain Annealed Copper Class 2 Stranded to BS EN **Conductor:**

60228

Insulation: Thermosetting XLPE Type GP8 to BS 7655-1.3

Bedding: Compatible Polymeric Material (PVC)

Steel Wire Armour: Galvanised Steel Wire

Sheathing: PVC Type 9 to BS 7655-4.2

Current Ratings: For current ratings refer to table 4E4A of BS7671

IEE Wiring Regulations Seventeenth Edition.

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**

MAXIMUM OPERATING TEMPERATURE

MINIMUM BENDING **RADIUS**

8 x Ø

WHITE NUMBERED CORES







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Reference Number	Number and Nominal Cross Sectional Area of Conductor (mm²)	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		
7C1.5	7 x 1.5	7/0.53	0.6	0.8	0.9	1.4	15.2	506	205		
7C2.5	7 x 2.5	7/0.67	0.7	0.8	0.9	1.4	17.1	618	20		
7C4.0	7 x 4.0	7/0.85	0.7	0.8	1.3	1.5	19.7	904	25		
7C6.0 *	7 x 6.0	7/1.04	0.7	0.8	1.3	1.6	21.3	1110	25		
7C710 *	7 x 10.0	7/1.35	0.7	0.8	1.6	1.6	25.6	1720	25		
12C1.5	12 x 1.5	7/0.53	0.6	0.8	1.3	1.5	19.4	854	25		
12C2.5	12 x 2.5	7/0.67	0.7	0.8	1.3	1.6	22.4	1080	25		
12C4.0	12 x 4.0	7/0.85	0.7	1.0	1.6	1.6	25.7	1550	32		
19C1.5	19 x 1.5	7/0.53	0.6	0.8	1.3	1.6	22.2	1120	25		
19C2.5	19 x 2.5	7/0.67	0.7	1.0	1.6	1.7	26.6	1570	25		
19C4.0	19 x 4.0	7/0.85	0.7	1.0	1.6	1.7	29.3	2050	32		
27C1.5**	27 x 1.5	7/0.53	0.6	1	1.6	1.7	26.7	1120	32		
27C2.5**	27 x 2.5	7/0.67	0.7	1.0	1.6	1.8	30.7	1570	32		

^{*} Manufactured generally to BS5467, not BASEC approved

^{**} Not BASEC approved





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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	0.42	0.40	0.39	0.36	0.34	0.33	0.33

ASTER CABLE



Product Certification Schedule

Schedule No: 040/001/362

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 5467:2016 Incorporating Corrigendum No. 1 Electric cables. Thermosetting

insulated, armoured cables of rated voltages of 600/1 000 V and 1 900/3 300 V

for fixed installations.

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 - Type 9. Insulation - GP8.

Origin Thread: BLUE/BROWN/GREY/ORANGE

Origin Mark: DONCASTER CABLES

PERMISSIBLE MARKS



BASEC

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.





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