Technical Data Sheet

Anixter Part No:	BS5467-5C-0025N

Description

stranded plain annealed copper conductors, XLPE insulation, cores laid up, PVC sheath, galvanised steel wire armour, PVC sheath (black). BS5467

Dimensions

Number of cores	5	no.
Nominal conductor size	2.5	mm²
Nominal conductor stranding	7/0.67	#/mm
Insulation thickness	0.7	mm
Inner sheath thickness	0.8	mm
Nominal inner sheath diameter	9.7	mm
Armour wire size	0.9	mm
Outer sheath thickness	1.4	mm
Nominal outer diameter	16.1	mm

Electrical Characteristics

Nominal voltage rating (Uo/U)	600/1000	Vrms
Maximum DC conductor resistance @ 20°C	7.41	ohm/km
Maximum AC conductor resistance @ 90°C	9.45	ohm/km
Reactance @ 50 Hz	0.101	ohm/km
Impedance @ 90°C, 50Hz	9.45	ohm/km
Voltage drop	16	mV/A/m
Maximum DC armour resistance @ 20°C	6.80	ohm/km
Conductor short-circuit rating (1s)	0.357	kA
Armour short-circuit rating (1s)	1.01	kA
Sustained Current Ratings:		
Buried direct (15°C ground temperature, 1.2˚C m/W)	42	A
In single-way duct (15°C ground temperature, 1.2˚C m/W)	34	A
In air (25°C ambient temperature)	35	A

Physical Characteristics

Maximum conductor operating temperature	90	°C
Maximum conductor short-circuit temperature	250	°C
Maximum armour short-circuit temperature	200	°C
Conductor material	Stranded Class 2 plain annealed copper conductors to BS EN 60228	
Insulation material	XLPE Type GP8 to BS7655 Section 1.3	
Inner sheath material	PVC Type 9 to BS7655 Section 4.2	
Armour material	Mild galvanised steel wires to BS EN 10257-1	
Outer sheath material	PVC Type 9 to BS7655 Section 4.2	
Maximum pulling tension by conductor eye	70	kgf
Minimum bending radius	100	mm
Flame resistance	Flame retardant to BS EN 60332-1-2	
Weight	450	kg/km

Core Identification: Number printed in black ink on white insulation.

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