

ANIXTER

Technical Data Sheet

Anixter Part No:

A4BN-0025-03

Description

*Flexible Class 5 plain annealed copper conductors, PVC insulation. (red) ROHS Compliant
BS6231 Type BK 600/1000V NSN 6145-99-651-5074*

Dimensions

Number of cores	1	no.
Nominal conductor size	2.5	mm ²
Nominal conductor stranding	50/0.25	#/mm
Insulation thickness	0.8	mm
Nominal outer diameter	3.76	mm
Maximum outer diameter	4.10	mm

Electrical Characteristics

Nominal voltage rating (Uo/U)	600/1000V	Vrms
Maximum DC conductor resistance @ 20°C	7.98	ohm/km
Maximum AC conductor resistance @ 70°C	9.55	ohm/km
Reactance @ 50 Hz	0.100	ohm/km
Impedance @ 70°C, 50Hz	9.55	ohm/km
Voltage Drop (single phase a.c.)	19	mV/A/m
Voltage Drop (three phase a.c.)	17	mV/A/m
Conductor short-circuit rating (1s)	0.287	kA

Sustained Current Ratings (30°C ambient air temperature):

Reference Method B (enclosed in trunking, conduit etc.) Single Phase	24	A
Reference Method B (enclosed in trunking, conduit etc.) Three Phase	21	A
Reference Method C (clipped direct, 2 cables touching) Single Phase	27	A
Reference Method C (clipped direct, 3 cables flat or trefoil) Three Phase	25	A

Physical Characteristics

Maximum conductor operating temperature	70	°C
Maximum conductor short-circuit temperature	160	°C
Conductor material	Flexible Class 5 plain annealed copper conductors to BS EN 60228	
Insulation material	PVC Type TI 1 to BS EN 50363-3	
Maximum pulling tension by conductor eye	15	kgf
Minimum bending radius (fixed bend)	15	mm
Minimum bending radius (free movement)	30	mm
Flame resistance	Flame retardant to BS EN 60332-1-2	
Weight	34	kg/km

Core Identification:

Issue No: 1

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