



Technical Data Sheet

Anixter Part No:

H05RNF-2C-0007

Description

Flexible Class 5 annealed copper conductors, elastomeric insulation, cores laid up and cross-linked elastomeric sheath (black). 300/500V BS EN 50525-2-21 H05RN-F2

Dimensions

Number of cores	2	no.
Nominal conductor size	0.75	mm ²
Nominal conductor stranding	24/0.2	#/mm
Insulation thickness	0.6	mm
Outer sheath thickness	1.1	mm
Minimum diameter	5.7	mm
Minimum diameter	7.4	mm

Electrical Characteristics

Nominal voltage rating (U ₀ /U)	300/500	Vrms
Maximum DC conductor resistance @ 20°C	7.26	ohm/km
Maximum AC conductor resistance @ 60°C	8.40	ohm/km
Reactance @ 50 Hz	0.096	ohm/km
Impedance @ 60°C, 50Hz	8.40	ohm/km
Voltage drop	62	mV/A/m
Conductor short-circuit rating (1s)	0.105	kA
Sustained Current Ratings: In air (30°C ambient temperature)	6	A

Physical Characteristics

Maximum conductor operating temperature	60	°C
Maximum conductor short-circuit temperature	200	°C
Minimum installation and handling temperature	-25	°C
Conductor material	Flexible Class 5 plain annealed copper conductors to BS EN 60228	
Insulation material	Cross-linked elastomeric Type EI 4 to BS EN 50363-1	
Outer sheath material	Cross-linked elastomeric Type EM 2 to BS EN 50363-2-1	
Maximum pulling tension by conductor eye	9	kgf
Minimum bending radius (static application)	22	mm
Minimum bending radius (free movement)	30	mm
Flame resistance	Flame retardant to BS EN 60332-1-2	
Weight	61	kg/km

Core Identification

brown, blue

Issue No: 1

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