

Country of Origin, Construction, Approvals & Fire Performance

Manufacturer	Place of Manufacture
Wrexham Cables KSA	Saudi Arabia
Cables Manufactured to	Cable Type – Known as “Fire Survival Cable”
BS EN 60702-1:2002+A1:2015	Fire Resistant exceeding 3 hours @ 950°C
Continuous Operating Temperature	LPCB Product Approval Number
-40°C up to 250°C	333a/01*1
Applicable Standards	
BS5839-1:2017 Enhanced to Clause 26.2, BS EN 50200:2015, BS 8434-2:2003 + A2:2009, *BS6387:2013 C,W & Z, BS 8519 & BS 8491 CAT C, BS 60331	
LPCB Approved Marking on Cables	Insulation
WMC KSA “Made in Saudi”	Highly compressed magnesium oxide (MgO)
Hazardous area cable system ATEX / IEC Ex APPROVED UNDER SIRA LICENCE 1305X & IEC Ex SIR 19.0051X	
Apparatus (type of protection ‘d’) Zones 1 & 2, Groups IIA, IIB and IIC. Zones 20, 21 & 22, groups IIIA, IIIB & IIIC. In compliance with EN 60079	
Copper Conductor Plain Annealed to IEC 60228 Type 1 Solid	Seamed Copper Sheath Construction
Cu - ETP or Cu - FRHC	C12200 grade, Cu - DHP
Number of Cores	
2	

*Only cables up to 20mm *
 1*Under Process



Electrical Properties

Two Core Heavy Duty MICC Cables	Voltage Rating (V)	Test Voltage (Factory Internal D.C Test) (V)	Current Rating Bare or Served Cables Exposed to Touch (Amps)		Voltage Drop Cables Exposed to Touch (Per Amp/Per m)	Max Conductor Resistance Ohms per 1000m @ 20°C	Copper Sheath Resistance @ 20°C Ohms/Km	Earth Fault Loop Impedance Resistance @ 70°C (R1+R2) Ohms/Km
			Bare	Served				
2H1.5	750	3750	22.5	25	28	12.1	1.51	16.902
2H2.5	750	3750	31	34	17	7.41	1.29	10.903
2H4	750	3750	40.5	45	10	4.61	1.04	7.185
2H6	750	3750	51	57	7	3.08	0.887	5.073
2H10	750	3750	69	77	4.2	1.83	0.690	3.272
2H16	750	3750	92	102	2.6	1.15	0.533	2.220
2H25	750	3750	120	133	1.65	0.727	0.423	1.537

NOTES:

Ambient Temp 30°C Sheath operating temperature 70°C For bare cables exposed to touch, the tabulated values should be multiplied by 0.9

Current Carrying Capacity LSZH or Bare and Exposed to Touch

Two Core Heavy Duty MICC Cables	Single Phase A.C or D.C — 2 Core Cables	
	Ref C * (Amps)	Ref E, F & G ** (Amps)
2H1.5	25	26
2H2.5	34	36
2H4	45	47
2H6	57	60
2H10	77	82
2H16	102	109
2H25	133	142

* Clipped direct ** In free air, perforated cable tray horizontal or vertical

MICC Resistance, Reactance & Impedance

Cable Type	Resistance R (Ω/Km)			Reactance X (Ω/Km)	Impedance Z (Ω/Km)		
	30c	70c	105c		30c	70c	105c
2H1.5	12.575	14.477	16.141	0.101	12.576	14.478	16.142
2H2.5	7.701	8.886	9.885	0.094	7.702	8.866	9.885
2H4	4.791	5.516	6.150	0.088	4.792	5.516	6.150
2H6	3.200	3.685	4.109	0.083	3.201	3.686	4.110
2H10	1.902	2.190	2.441	0.079	1.904	2.191	2.442
2H16	1.195	1.376	1.534	0.075	1.198	1.378	1.536
2H25	0.756	0.870	0.970	0.073	0.759	0.873	0.973

Mechanical Properties

Two Core Heavy Duty MICC Cables	Cable Diameter (mm)		Conductor Diameter (mm ²)	Copper Sheath Mean Thickness (mm)	Nominal Insulation Thickness (MgO) (mm)	Mean Serving Thickness (LSZH Optional Outer Covering) (mm)	Approx Weight per 1000m (Kg)		Minimum Bend Radius (6 Times Diameter of Cable) (mm)
	Bare	Served					Bare	Served	
2H1.5	7.9	9.6	1.5	0.54	1.3	0.75	247	284	47.4
2H2.5	8.7	10.4	2.5	0.57	1.3	0.75	280	335	52.2
2H4	9.8	11.5	4	0.61	1.3	0.75	365	415	58.8
2H6	10.9	12.6	6	0.65	1.3	0.75	463	510	65.4
2H10	12.7	14.4	10	0.71	1.3	0.75	635	725	76.2
2H16	14.7	16.4	16	0.78	1.3	0.75	855	918	88.2
2H25	17.1	19.4	25	0.85	1.3	1.00	1185	1285	102.6

Product Part Codes

Two Core Heavy Duty MICC Cables	WMC Cable Part Code for Bare or CC MICC	WMC Cable Part Code for LSZH Served or CCM MICC	IEC Ex & ATEX Approved Cable Gland		Seal Kits WRPS Plain or WRPSL E/T	Shrouds (PVC)		Shrouds (LSZH)		Lockwasher WRLM or WRLWS Serrated Washer		Bare Single Clips (P Clips) 1 Clip every 0.4m	LSZH Single Clips (P Clips) 1 Clip every 0.4m	Bare Two Way Clips (Saddles) 1 Clip every 0.4m	LSZH Two Way Clips (Saddles) 1 Clip every 0.4m
	Cable Size Followed By	Cable Size Followed By	WRGM		WRPS/WRPSL	WRHG		WRHGMM		WRLM/ WRLWS		WRC	WRCHL	WRS	WRSFL
			***	****		***	****	***	****	***	****				
2H1.5	BARE/*	LSF/**/*	2H1.5/20	2H1.5/20	2H1.5	20/**	20/**	20	20	20	20	30	37/**	342	382/**
2H2.5	BARE/*	LSF/**/*	2H2.5/20	2H2.5/20	2H2.5	20/**	20/**	20	20	20	20	34	40/**	342	422/**
2H4	BARE/*	LSF/**/*	2H4/20	2H4/25	2H4	20/**	!	20	25	20	25	37	43/**	422	462/**
2H6	BARE/*	LSF/**/*	2H6/20	2H6/25	2H6	20/**	!	20	25	20	25	43	47/**	462	502/**
2H10	BARE/*	LSF/**/*	2H10/25	2H10/32	2H10	!	!	25	32	25	32	47	54/**	502	529/**
2H16	BARE/*	LSF/**/*	2H16/25	2H16/40	2H16	!	!	25	40	25	40	54	63/**	592	702/**
2H25	BARE/*	LSF/**/*	2H25/32	2H25/40	2H25	!	!	32	40	32	40	67	75/**	702	757/**

D or C depending on drum or coil | ** Cable colour e.g. RD = RED, OE = ORANGE, BK = BLACK, WE = WHITE
Seal choice: *** Represents Standard seal (WRPS) requirements **** Represents E/T seal (WRPSL) requirements (Only available up to 50mm2)