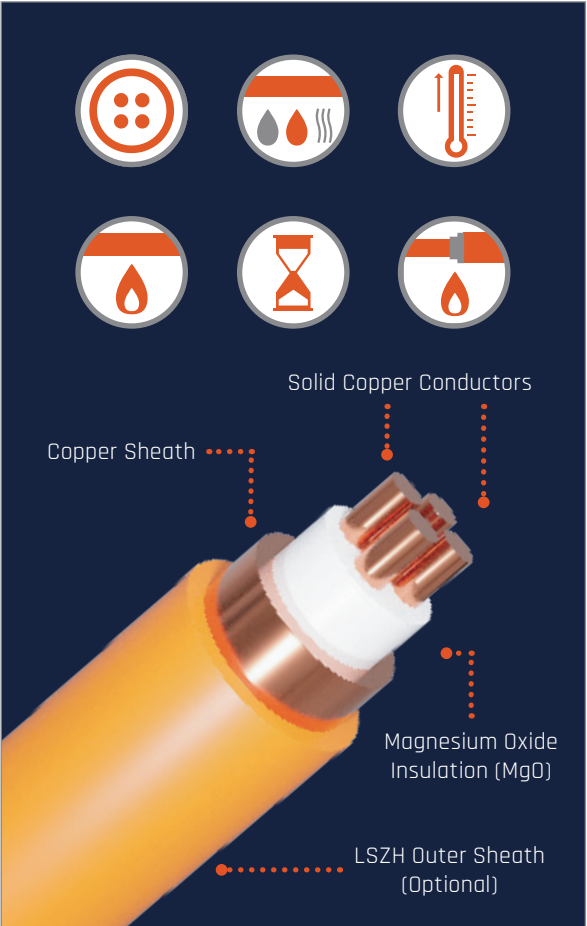


4 CORE HEAVY DUTY Fire Resistant MICC Cable 750V

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”
BSEN 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	
4	

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



Electrical Properties

Four Core Heavy Duty MICC Cables	Voltage Rating	Test Voltage (Factory Internal D.C Test)	Current Rating Bare or Served Cables Exposed to Touch		Voltage Drop Cables Exposed to Touch	Max Conductor Resistance	Copper Sheath Resistance @ 20°C	Earth Fault Loop Impedance Resistance @ 70°C (R1+R2)
	(V)	(V)	Bare	Served	(Per Amp/Per m)	Ohms per 1000m @ 20°C	Ohms/Km	Ohms/Km
4H1.5	750	3750	19	21	24	12.1	1.51	16.435
4H2.5	750	3750	25	28	14	7.41	1.29	10.496
4H4	750	3750	33	37	9.1	4.61	1.04	6.814
4H6	750	3750	43	48	6	3.08	0.887	4.782
4H10	750	3750	58.5	65	3.6	1.83	0.690	3.036
4H16	750	3750	77	86	2.3	1.15	0.533	2.026
4H25	750	3750	101	112	1.45	0.727	0.423	1.384

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

Four Core Heavy Duty MICC Cables	Single phase A,C or D.C - 4 Core Cable	
	Ref C * (Amps)	Ref E, F & G ** (Amps)
4H1.5	21	22
4H2.5	28	30
4H4	37	40
4H6	48	51
4H10	65	69
4H16	86	92
4H25	112	120

* 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
4H1.5	12.575	14.477	16.141	0.101	12.576	14.478	16.142
4H2.5	7.701	8.886	9.885	0.094	7.702	8.866	9.885
4H4	4.791	5.516	6.150	0.088	4.792	5.516	6.150
4H6	3.200	3.685	4.109	0.083	3.201	3.686	4.110
4H10	1.902	2.190	2.441	0.079	1.904	2.191	2.442
4H16	1.195	1.376	1.534	0.075	1.198	1.378	1.536
4H25	0.756	0.870	0.970	0.073	0.759	0.873	0.973

Mechanical Properties

Four Core Heavy Duty MICC Cables	Cable Diameter (mm)		Conductor Diameter (mm2)	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	
4H1.5	9.1	10.8	1.5	0.59	1.3	0.75	330	370	54.6
4H2.5	10.1	11.8	2.5	0.62	1.3	0.75	412	445	60.6
4H4	11.4	13.1	4	0.68	1.3	0.75	530	608	68.4
4H6	12.7	14.4	6	0.71	1.3	0.75	740	790	76.2
4H10	14.8	16.5	10	0.78	1.3	0.75	916	979	88.8
4H16	17.3	19.6	16	0.86	1.3	1.00	1292	1393	103.8
4H25	20.1	22.9	25	0.93	1.3	1.00	1813	1956	120.6

Product Part Codes

Four 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	Cable Size Followed By	WRGM		WRPS/WRPSL	WRHG		WRHGMM		WRLM/WRLWS		WRC	WRCHL	WRS	WRSFL
			***	****		***	****	***	****	***	****				
4H1.5	BARE/*	LSF/**/*	4H1.5/20	4H1.5/20	4H1.5	20/**	20/**	20/**	20/**	20	20	37	43/**	382	462/**
4H2.5	BARE/*	LSF/**/*	4H2.5/20	4H2.5/25	4H2.5	20/**	!	20/**	25/**	20	25	40	47/**	422	462/**
4H4	BARE/*	LSF/**/*	4H4/25	4H4/25	4H4	!	!	25/**	25/**	25	25	43	51/**	462	542/**
4H6	BARE/*	LSF/**/*	4H6/25	4H6/32	4H6	!	!	25/**	25/**	25	32	47	54/**	502	592/**
4H10	BARE/*	LSF/**/*	4H10/25	4H10/32	4H10	!	!	25/**	32/**	25	32	54	63/**	592	702/**
4H16	BARE/*	LSF/**/*	4H16/32	4H16/40	4H16	!	!	32/**	40/**	32	40	67	75/**	702	752/**
4H25	BARE/*	LSF/**/*	4H25/40	4H25/40	4H25	!	!	40/**	40/**	40	40	79	88/**	812	932/**

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)

