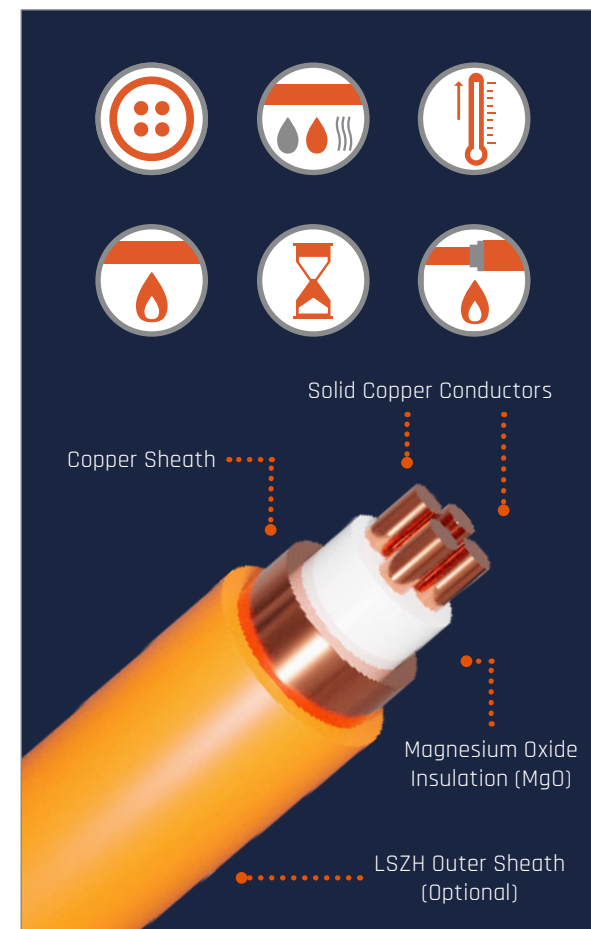


Country of Origin, Construction, Approvals & Fire Performance

Manufacturer	Place of Manufacture
Wrexham Mineral Cables	United Kingdom
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
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 60331	
LPCB Approved Marking on Cables	Insulation
WMIC, WMC “Made in the UK”	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	



Electrical Properties

Four Core Light Duty MICC Cables	Voltage Rating	Test Voltage (Factory Internal D.C Test)	Current Rating Bare or Served Cables Exposed to Touch (Amps)		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
4L1.5	500	3000	17	19	24	12.1	2.33	17.416
4L2.5	500	3000	23	26	14	7.41	1.85	11.166

Above 2.5mm² conductor size would need to consider 750V Heavy Duty cables

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 Light Duty MICC Cables	Single Phase A.C or D.C — 4 Core Cables	
	Ref C * (Amps)	Ref E, F & G ** (Amps)
4L1.5	19	21
4L2.5	26	28

* 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
4L1.5	12.575	14.477	16.141	0.086	12.576	14.477	16.141
4L2.5	7.701	8.866	9.885	0.079	7.702	8.866	9.885

Mechanical Properties

Four Core Light 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	
4L1.5	7.0	8.5	1.5	0.50	0.75	0.65	209	243	42
4L2.5	8.1	9.8	2.5	0.54	0.75	0.75	288	333	48.6

Product Part Codes

Four Core Light Duty MICC Cables	WMC Cable Part Code for Bare or CC MICC Cable Size Followed By	WMC Cable Part Code for LSZH Served or CCM MICC Cable Size Followed By	IEC Ex & ATEX Approved Cable Gland WRGM	Seal Kits WRPS Plain or WRPSL E/T WRPS/WRPSL	Shrouds (PVC) WRHG	Shrouds (LSZH) WRHGMM	Lockwasher WRLM or WRLWS Serrated Washer WRLM/ WRLWS	Bare Single Clips (P Clips) 1 Clip Every 0.4m WRC	LSZH Single Clips (P Clips) 1 Clip Every 0.4m WRCHL	Bare Two Way Clips (Saddles) 1 Clip Every 0.4m WRS	LSZH Two Way Clips (Saddles) 1 Clip Every 0.4m WRSFL
4L1.5	BARE/*	LSF/**/*	4L1.5/20	4L1.5	20/**	20/**	20	28	34/**	302	342/**
4L2.5	BARE/*	LSF/**/*	4L2.5/20	4L2.5	20/**	20/**	20	32	37/**	342	422/**

* D or C depending on drum or coil | ** Cable colour e.g. RD = RED, OE = ORANGE, BK = BLACK, WE = WHITE