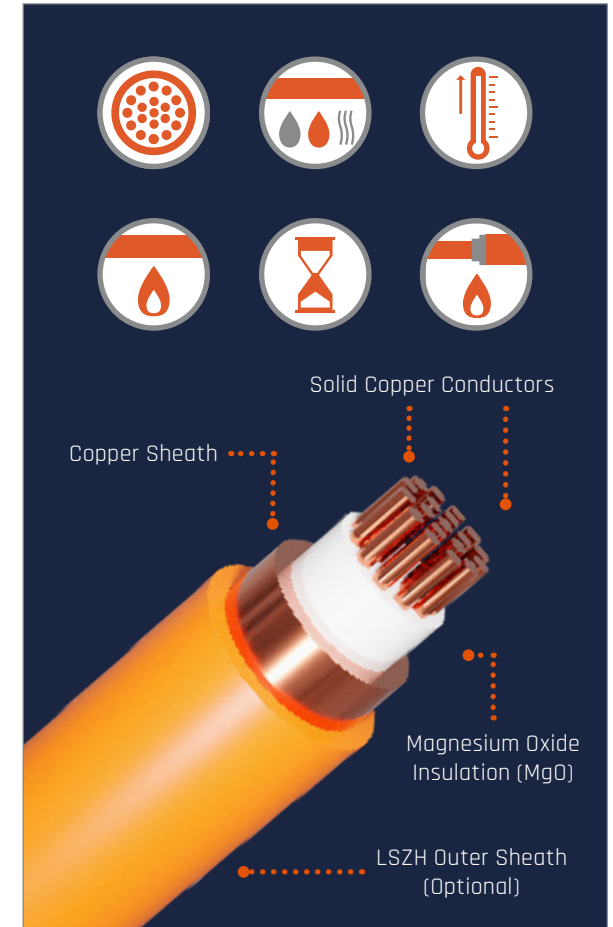


**Country of Origin, Construction, Approvals & Fire Performance**

Manufacturer	Place of Manufacture
Wrexham Mineral Cables	United Kingdom
Cables Manufactured to	Cable Type – Known as “Fire Survival Cable”
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
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, BS8491 CAT 3, 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	
19	

\*Cables up to 20mm apply only



### Electrical Properties

Nineteen 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				
19H1.5	750	3750	16.6	18.9	28	12.1	0.570	15.310

### MICC Resistance, Reactance & Impedance

Cable Type	Resistance R (Ω/Km)			Reactance X (Ω/Km)	Impedance Z (Ω/Km)		
	30c	70c	105c		30c	70c	105c
19H1.5	12.575	14.477	16.141	0.101	12.576	14.478	16.142

### Mechanical Properties

Nineteen Core Heavy Duty MICC Cables	Cable Diameter (mm)		Conductor Diameter (mm <sup>2</sup> )	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	
19H1.5	16.6	18.9	1.5	0.84	1.3	1.0	989	1086	99.6

### Product Part Codes

Nineteen Core Heavy 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  WRPS	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
19H1.5	BARE/**	LSF/**/**	19H1.5/40	19H1.5	!	40/**	40	63	71/**	702	752/**

\*D or C depending on drum or coil | \*\* Cable colour e.g. RD = RED, OE = ORANGE, BK = BLACK, WE = WHITE.  
 Only standard seals (WRPS) available in 12 & 19 core MICC Cables.