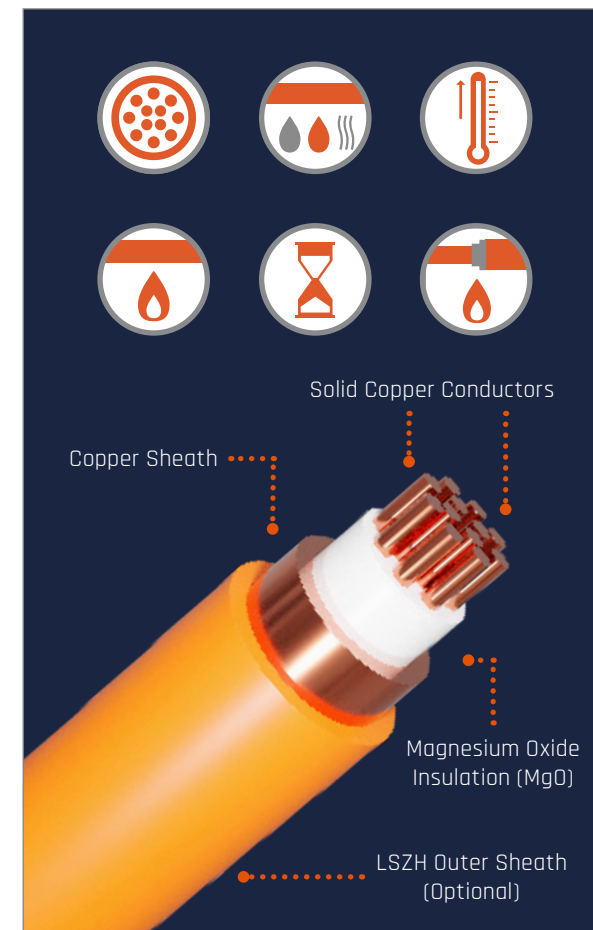


Country of Origin, Construction, Approvals & Fire Performance

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, BS8519, BS 8491 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	
12	

*Cables up to 20mm apply only



Electrical Properties

Twelve 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				
12H1.5	750	3750	14.1	15.8	28	12.1	0.744	15.519
12H2.5	750	3750	15.6	17.9	17	7.41	0.630	9.706

MICC Resistance, Reactance & Impedance

Cable Type	Resistance R (Ω/Km)			Reactance X (Ω/Km)	Impedance Z (Ω/Km)		
	30c	70c	105c		30c	70c	105c
12H1.5	12.575	14.477	16.141	0.101	12.576	14.478	16.142
12H2.5	7.701	8.886	9.885	0.094	7.702	8.866	9.885

Mechanical Properties

Twelve Core Heavy Duty MICC Cables	Cable Diameter		Conductor Diameter	Copper Sheath Mean Thickness	Nominal Insulation Thickness	Mean Serving Thickness (LSZH Optional Outer Covering)	Approx Weight per 1000m		Minimum Bend Radius (6 Times Diameter of Cable)
	(mm)						(mm ²)	(mm)	
	Bare	Served	Bare	Served					
12H1.5	14.1	15.8	15.6	0.76	1.3	0.75	710	770	84.6
12H2.5	15.6	17.9	2.5	0.81	1.3	1	910	1001	93.6

Product Part Codes

Twelve 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	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	WRHG	WRHGMM	WRLM/ WRLWS	WRC	WRCHL	WRS	WRSFL
12H1.5	BARE/*	LSF/**/*	12H1.5/32	12H1.5	!	32/**	32	54	59/**	592	632/**
12H2.5	BARE/*	LSF/**/*	12H2.5/32	12H2.5	!	32/**	32	59	71/**	632	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.