

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 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	
3 Twisted	



Electrical Properties

Three core Twisted Light 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				
3T1.5	500	3000	17	19	24	12.1	2.67	17.823

Electrical screening performance

Three core Twisted Light Duty MICC	CAP - C/C @ 10k-Hz	CAP - C/SH @10k-Hz	IND-LOOP @10k-Hz	CHARACTER IMP Ohms	Frequency of twists Per m
3T1.5	160pF/m	260pF/m	450 uH/Km	50	20

Mechanical Properties

Three core Twisted 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	
3T1.5	6.4	7.9	1.5	0.48	0.75	0.65	172	199	38.4

Product Part Codes

Three core Twisted 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
3T1.5	BARE/*	LSF/**/*	3L1.5/20	3L1.5	20/**	20/**	20	24	30/**	272	342/**

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