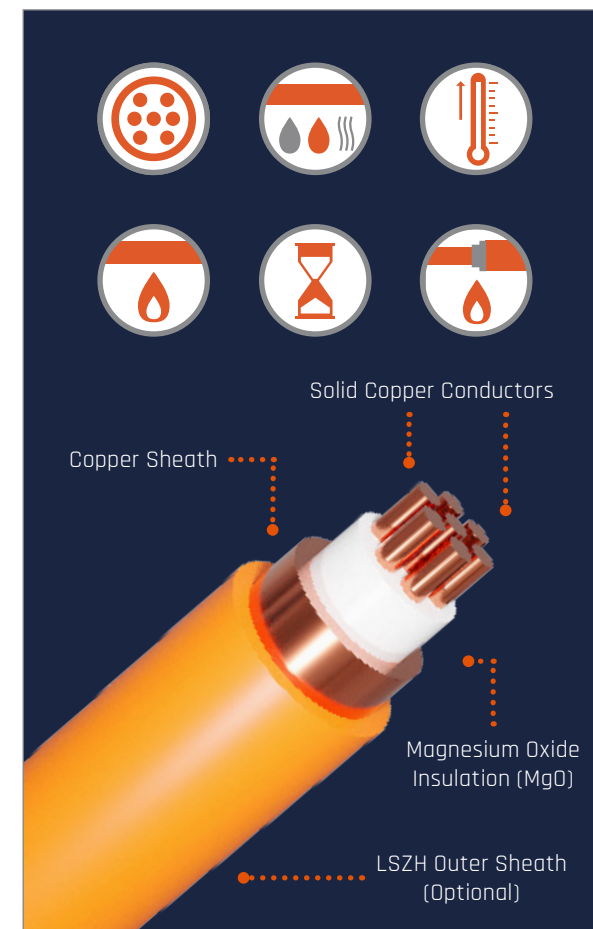


### Country of Origin, Construction, Approvals & Fire Performance

| Manufacturer                                                                                                                                      | Place of Manufacture                        |
|---------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|
| Wrexham Cables KSA                                                                                                                                | Saudi Arabia                                |
| Cables Manufactured to                                                                                                                            | Cable Type – Known as “Fire Survival Cable” |
| 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*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, BS8519, BS 8491 CAT 3, 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                                                                                                                                   |                                             |
| 7                                                                                                                                                 |                                             |

\*Cables up to 20mm apply only

1\*Under Process



## Electrical Properties

| Seven 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 |                                                      |                                                |                                         |                                                              |
| 7H1.5                             | 750                | 3750                                         | 13                                                           | 14     | 28                                                   | 12.1                                           | 1.15                                    | 16.004                                                       |
| 7H2.5                             | 750                | 3750                                         | 17                                                           | 19     | 17                                                   | 7.41                                           | 0.959                                   | 10.100                                                       |

## MICC Resistance, Reactance & Impedance

| Cable Type | Resistance R (Ω/Km) |        |        | Reactance X (Ω/Km) | Impedance Z (Ω/Km) |        |        |
|------------|---------------------|--------|--------|--------------------|--------------------|--------|--------|
|            | 30c                 | 70c    | 105c   |                    | 30c                | 70c    | 105c   |
| 7H1.5      | 12.575              | 14.477 | 16.141 | 0.101              | 12.576             | 14.478 | 16.142 |
| 7H2.5      | 7.701               | 8.886  | 9.885  | 0.094              | 7.702              | 8.866  | 9.885  |

### Mechanical Properties

| Seven Core Heavy Duty MICC Cables | Cable Diameter |        | Conductor Diameter | Copper Sheath Mean Thickness | Nominal Insulation Thickness (MgO) | Mean Serving Thickness (LSZH Optional Outer Covering) | Approx Weight per 1000m |        | Minimum Bend Radius (6 Times Diameter of Cable) |
|-----------------------------------|----------------|--------|--------------------|------------------------------|------------------------------------|-------------------------------------------------------|-------------------------|--------|-------------------------------------------------|
|                                   | (mm)           |        |                    |                              |                                    |                                                       | (Kg)                    |        |                                                 |
|                                   | Bare           | Served | (mm <sup>2</sup> ) | (mm)                         | (mm)                               | (mm)                                                  | Bare                    | Served | (mm)                                            |
| 7H1.5                             | 13             | 14     | 1.5                | 0.65                         | 1.3                                | 0.75                                                  | 435                     | 482    | 64.8                                            |
| 7H2.5                             | 17             | 19     | 2.5                | 0.69                         | 1.3                                | 0.75                                                  | 563                     | 616    | 72.6                                            |

### Product Part Codes

| Seven<br>Core<br>Heavy<br>Duty<br>MICC<br>Cables | WMC Cable<br>Part Code for<br>Bare or CC MICC<br><br>Cable Size<br>Followed By | WMC Cable<br>Part Code for<br>LSZH Served or<br>CCM MICC<br><br>Cable Size<br>Followed By | IEC Ex & ATEX<br>Approved<br>Cable Gland |      | Seal Kits<br>WRPS Plain<br>or WRPSL E/T<br><br>WRPS/<br>WRPSL | Shrouds<br>(PVC) |      | Shrouds<br>(LSZH) |      | Lockwasher<br>WRLM<br>or WRLWS<br>Serrated<br>Washer<br><br>WRLM/<br>WRLWS |      | Bare<br>Single<br>Clips<br>(P Clips)<br>1 Clip<br>Every<br>0.4m<br><br>WRC | LSZH<br>Single<br>Clips<br>(P Clips)<br>1 Clip<br>Every<br>0.4m<br><br>WRCHL | Bare Two<br>Way Clips<br>(Saddles)<br><br>1 Clip<br>Every<br>0.4m<br><br>WRS | LSZH Two<br>Way Clips<br>(Saddles)<br><br>1 Clip<br>Every<br>0.4m<br><br>WRSFL |
|--------------------------------------------------|--------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|------------------------------------------|------|---------------------------------------------------------------|------------------|------|-------------------|------|----------------------------------------------------------------------------|------|----------------------------------------------------------------------------|------------------------------------------------------------------------------|------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
|                                                  |                                                                                |                                                                                           | WRGM                                     |      |                                                               | WRHG             |      | WRHGMM            |      |                                                                            |      |                                                                            |                                                                              |                                                                              |                                                                                |
|                                                  |                                                                                |                                                                                           | ***                                      | **** |                                                               | ***              | **** | ***               | **** | ***                                                                        | **** |                                                                            |                                                                              |                                                                              |                                                                                |
| 7H1.5                                            | BARE/*                                                                         | LSF/**/*                                                                                  | 7H1.5/25                                 |      | 7H1.5                                                         | !                |      | 25/**             |      | 25                                                                         |      | 43                                                                         | 47/**                                                                        | 472                                                                          | 502/**                                                                         |
| 7H2.5                                            | BARE/*                                                                         | LSF/**/*                                                                                  | 7H2.5/25                                 |      | 7H2.5                                                         | !                |      | 25/**             |      | 25                                                                         |      | 47                                                                         | 54/**                                                                        | 502                                                                          | 542/**                                                                         |

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 (WRPSL) requirements \*\*\*\* Represents E/T seal (WRPSL) requirements (Only available up to 50mm2)

