

## MC SERIES

### Standard Performance Fixed Circular TPS Cable 450/750V 90°C



#### APPLICATIONS:

**Power** Suitable for mains and submains in a fixed application.

**Direct Burial** Suited for direct burial or underground ducting.

**Outdoor Use** Suitable for outdoor use and wet locations not subject to mechanical damage.

**Hazardous Areas** With correct explosion proof glands this cable can be installed in locations subject to explosion hazards AS/NZS 60079.14.

#### PRODUCT FEATURES:

- ▶ Suitable for circuits buried direct
- ▶ Metre marking for better length control
- ▶ UV stabilised
- ▶ Flame retardant
- ▶ Heat, oil and chemical resistant (See Technical Section)

**Note:** Standard Core MC Series meets AS/NZS 5000.2.

Multi Core MC Series (7 core and above) meets AS/NZS 5000.3.

#### CONSTRUCTION:

**Conductor** Annealed plain copper stranded (Class 2).

**Insulation** SPVC V-90.

**Sheath** SPVC 5V-90.

#### CHARACTERISTICS:

**Operating Temperature Range** Fixed -20 to 90°C.

**Maximum Conductor Temperature** 90°C (Current ratings are based on 30°C air temp. See technical section for de-rating factors).

**Rated Voltage** Uo/U 450/750V.

**Minimum Bending Radius** Fixed 12 x cable diameter.

**Sheath Colour** Black.

**Standard Core Colour** 3 Core – Red, Black, Green/Yellow


4 Core – Red, White, Blue, Green/Yellow.

5 Core – Red, White, Blue, Black, Green/Yellow.

Multi Core – White (numbered) + Green/Yellow.

**Relevant Standards** AS/NZS 5000.2, AS/NZS 5000.3, AS/NZS 1125, AS/NZS 3808, AS/NZS 3008, IEC 60332-1-2, AS/NZS 60079.14,

**RoHS** Compliant.

Code	No. of Cores x Size (mm <sup>2</sup> )	Approx. Stranding No. of wires x mm	Approx. Overall Diameter (mm)	Approx. Weight (Kg/Km)	Nominal Amps un-enclosed @ 30°C fixed application		3 Phase Volt Drop @50Hz / MAX. Conductor Temp: 90°C (Mv/Am)
					Touching		
MC03/1.5	2x1.5+E1.5	7/0.50+7/0.50	8.5	99	17		30.0
MC03/2.5	2x2.5+E2.5	7/0.67+7/0.67	10.0	147	25		16.4
MC03/4.0	2x4.0+E2.5	7/0.85+7/0.67	11.6	198	33		10.2
MC03/6.0	2x6.0+E2.5	7/1.04+7/0.67	12.8	246	42		6.8
MC04/1.5	3x1.5+E1.5	7/0.50+7/0.50	9.2	122	17		30.0
MC04/2.5	3x2.5+E2.5	7/0.67+7/0.67	11.1	189	25		16.4
MC04/4.0	3x4.0+E2.5	7/0.85+7/0.67	12.7	253	33		10.2
MC04/6.0	3x6.0+E2.5	7/1.04+7/0.67	14.0	323	42		6.8
MC05/1.5	4x1.5+E1.5	7/0.50+7/0.50	10.0	145	17		30.0
MC05/2.5	4x2.5+E2.5	7/0.67+7/0.67	12.2	227	25		16.4
MC05/4.0	4x4.0+E2.5	7/0.85+7/0.67	14.1	316	33		10.2
MC05/6.0	4x6.0+E2.5	7/1.04+7/0.67	15.3	407	42		6.8
MC07/1.5	6x1.5+E1.5	7/0.50+7/0.50	11.4	198	17		30.0
MC12/1.5	11x1.5+E1.5	7/0.50+7/0.50	14.2	322	17		30.0
MC19/1.5	18x1.5+E1.5	7/0.50+7/0.50	16.9	448	17		30.0
MC27/1.5	26x1.5+E1.5	7/0.50+7/0.50	21.0	674	17		30.0
MC37/1.5	36x1.5+E1.5	7/0.50+7/0.50	22.8	844	17		30.0
MC07/2.5	6x2.5+E2.5	7/0.67+7/0.67	13.2	302	25		16.4
MC12/2.5	11x2.5+E2.5	7/0.67+7/0.67	17.4	485	25		16.4
MC19/2.5	18x2.5+E2.5	7/0.67+7/0.67	20.8	755	25		16.4
MC27/2.5	26x2.5+E2.5	7/0.67+7/0.67	24.9	1015	25		16.4
MC37/2.5	36x2.5+E2.5	7/0.67+7/0.67	28.1	1388	25		16.4

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