

Single Core Normal Flexibility Copper Conductor EM-5 Rubber Compound 85°C Sheathed Welding Cable as per EN 50525-2-81 & BS 638 Specification
Application

- ✓ Transmission of high currents from the electric welding machine to the welding tool.
- ✓ Assembly lines and conveyor systems, in machine tool and motor car manufacturing, ship building.
- ✓ Manually and automatically operated line and spot welding machines.

Product Construction

- ✓ Conductor : Plain or Tinned Annealed high conductivity class 6 copper wires complying with BS 6360
- ✓ Separator : Dry Paper, Polyester Tape
- ✓ Sheath : Covering in two layers
- ✓ Colour : Orange or Black

Technical Data

- ✓ Temperature Range : 85°C
- ✓ Rated Voltage : 100 / 100 V
- ✓ Bending Radius(Minimum) : 10 Overall dia.
- ✓ Type : HO1N2 -D
- ✓ Specification : BS EN 50525-2-81& BS 638
- ✓ Outer layer EMS Conforms to EN 50363-2 -2
- ✓ Inner layer EM 5 or E17 Conforms To EN 50363-1

Features

- ✓ Flexibility under rough conditions.
- ✓ Excellent Flame Retardant.
- ✓ Highly Resistant to effects of cold, heat and fire

	ISO 9001	ISO 14001	OHSAS 18001	AS 9100	ISO 45001	CE
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Part Number	Nominal conductor area (mm ²)	Maximum strand dia (mm)	Thickness of insulation (mm)	overall diameter (mm)		Approx Weight of Cable (kg/km)	Maximum Conductor Resistance at 20°C (Ω/Km)	
				MIN	Max.		Plain Wires	Tinned Wires
A05427XX	10	0.21	2.0	7.7	9.7	149	1.91	1.95
A05428XX	16	0.21	2.0	8.8	11.0	207	1.21	1.24
A05430XX	25	0.21	2.0	10.1	12.7	291	0.780	0.795
A05432XX	35	0.21	2.0	11.4	14.2	381	0.554	0.565
A05434XX	50	0.21	2.2	13.2	16.5	526	0.386	0.393
A05437XX	70	0.21	2.4	15.3	19.2	723	0.272	0.277
A05438XX	95	0.21	2.6	17.1	21.4	956	0.206	0.210
A05441XX	120	0.51	2.8	19.2	24.0	1190	0.161	0.164
A05442XX	150	0.51	3.0	21.1	26.4	1467	0.129	0.132
A05444XX	185	0.51	3.2	23.1	28.9	1788	0.106	0.108
A05446XX	240	0.51	3.4	25.8	32.1	2277	0.0801	0.0817

Derating Factors for a Conductor Temperature of 85° C & 60° C (Free Air, Ambient Temperature 25° C)

Ambient Temperature °C	Factor	
	85° C	60° C
30	0.96	0.92
35	0.91	0.84
40	0.87	0.75
45	0.82	0.65

Note : XX* : Please add last two digits in the part number as per the colour code given hereunder replacing XX while ordering.

Red - 01	Yellow - 02	Blue - 03	Black - 04	Green - 05	Yellow-Green - 06	Grey - 07	Brown - 08	White - 09	Orange - 10	Violet - 11
Chocolate - 12	Tan - 13	Charcoal - 14	LT Blue - 15	DK Grey - 16	LT Green - 17	DK Green - 18	DK Blue - 19	Purple - 20	Pink - 21	

✓ * Other length as per Customer order.

✓ Current Carrying capacity given is for the maximum conductor operating temperature of 80°C and ambient air temperature of 40°C.