

# EM-M/EF-M

Commercial, 2-Piece,  
Metal to Metal, Metric



## Rod Ends Industrial/ Commercial

Suitable for many light to heavy duty industrial/mechanical motion transfer applications, the Cablecraft 2-piece metal to metal EM-M/EF-M Series offers an economical design in metric sizing. Ball and body materials are produced from low carbon steel and are zinc plated with clear dichromate treatment for extended corrosion resistance. The ball is also case hardened for extended wear. (Optional PTFE liner minimizes wear, reduces maintenance and increases rod end life — self-lubricating and moisture resistant, as well. Ball on PTFE version is electroless nickel plated.) This all metal rod end can be operated in a wide range of temperatures. Studded, PTFE lined and right or left-handed thread versions are available. Grease fittings are optionally available on metal to metal series.

The EM-M/EF-M Series is just one of many within our broad line of industrial/commercial rod ends. For full product line detail, contact us for a comprehensive catalog or visit [www.cablecraft.com](http://www.cablecraft.com) and download individual product data sheets and other product information.



## Description:

EM/EF  
Industrial/Commercial Rod Ends  
2-Piece, Metal to Metal, Metric

## Applications:

Numerous mechanical motion transfer devices/applications, including:

- Construction equipment
- Lawn and garden
- Truck/bus

## Features:

- 2-piece metal to metal design offers economical metric alternative
- Suited for higher axial loads where side loading strength is critical
- Can be used in a wide range of temperatures: -65°F — 250°F (-54°C — 121°C)
- Offered in studded and right or left-handed versions
- Special custom alloy construction available
- Custom assemblies can be built to your specifications
- Meets SAE spec J1259

## Other Related Products:

- EM/EF Commercial, 2-Piece, Metal to Metal, English
- EM-T/EF-T Commercial, 2-Piece, PTFE Lined, English

# EM-M/EF-M

Commercial, 2-Piece,  
Metal to Metal, Metric

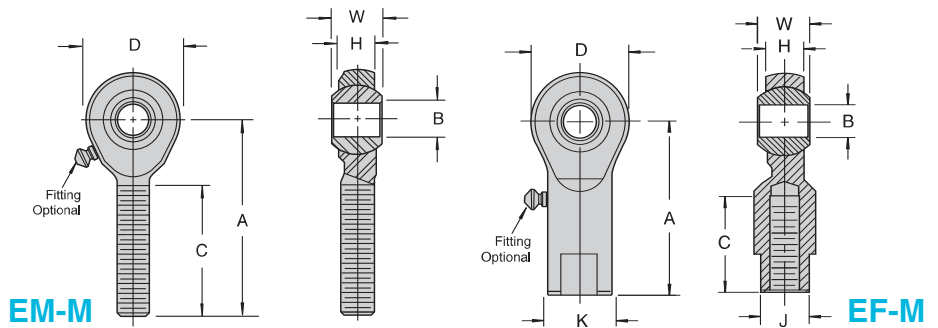
## Material

### Ball and Race

- Low Carbon Steel Case Hardened
- Zinc Plated, Clear Dichromate Treated
- Electroless Nickel Plated (for PTFE version)

### Liner (optional)

- PTFE, bonded to body I.D.



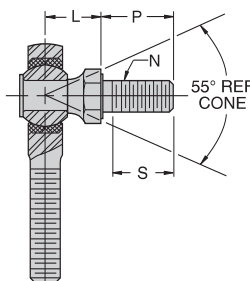
### EM-M Chart

Part Number		B +0.07 -0.00	W ±.13	H REF	A +1.5 -0.08	D ±.13	REF	C ± 1.5	6g	Ultimate Radial Static Load Capacity (Newtons)	Weight (Grams)
Right Hand	Left Hand	Ball Bore	Ball Width	Housing Width	Centerline Length	Head Diameter	Ball Diameter	Thread Length	Thread Size		
EM5M	EML5M	5.0	8	6.0	32.0	15.7	11.1	19	M5x.8	7,384	12
EM6M	EML6M	6.0	9	6.7	35.7	18.9	13.1	21	M6x1.0	10,097	19
EM8M	EML8M	8.0	12	9.0	41.7	25.1	15.8	24	M8x1.25	20,950	41
EM10M	EML10M	10.0	14	10.5	47.6	28.3	19.2	29	M10x1.5	27,489	65
EM12M	EML12M	12.0	16	12.0	55.0	33.2	22.3	32	M12x1.75	32,604	104
EM14M	EML14M	14.0	19	13.5	60.0	34.7	25.4	35	M14x2.0	37,586	136
EM16M	EML16M	16.0	21	15.0	66.7	37.9	28.5	40	M16x2.0	42,478	213

### EF-M Chart

Part Number		B +0.07 -0.00	W ±.13	H REF	A +1.5 -0.08	D ±.13	K ±.38	J ±.38	REF	C ± 1.5	6H	Ultimate Radial Static Load Capacity (Newtons)	Weight (Grams)
Right Hand	Left Hand	Ball Bore	Ball Width	Housing Width	Centerline Length	Head Diameter	Shank Diameter	Wrench Flat Width	Ball Diameter	Thread Length	Thread Size		
EF5M	EFL5M	5.0	8	6.0	26.0	15.7	11	8.9	11.1	9.0	M5x.8	10,542	20
EF6M	EFL6M	6.0	9	6.7	29.7	18.9	13	9.9	13.1	12.0	M6x1.0	14,412	31
EF8M	EFL8M	8.0	12	9.0	35.7	25.1	16	12.4	15.8	16.0	M8x1.25	29,935	61
EF10M	EFL10M	10.0	14	10.5	42.8	28.3	19	14.9	19.2	19.5	M10x1.5	34,383	98
EF12M	EFL12M	12.0	16	12.0	49.0	33.2	22	17.4	22.3	21.0	M12x1.75	40,788	145
EF14M	EFL14M	14.0	19	13.5	57.0	34.7	25	20.0	25.4	25.4	M14x2.0	41,766	211
EF16M	EFL16M	16.0	21	15.0	64.0	37.9	27	22.0	28.5	27.0	M16x2.0	47,238	214

Chart Notes: 1. For standard lubrication fitting, add "Z" to suffix. Example: EM10MZ 2. Series is also available in a studded configuration. Specify by adding "S" to suffix. Example: EM10MS 3. PTFE fabric liner optional. Specify by adding "T" to suffix. Example: EM10MT 4. All dimensions are listed in millimeters unless otherwise noted.



### Studded Dimensions

Rod End Bore Size	L REF	P ±.75	S Min. Thread Length	N Thread Size 6g
5mm	9.0	13.0	10.0	M5x.8
6mm	10.0	14.0	11.0	M6x1.0
8mm	12.0	17.5	14.0	M8x1.25
10mm	16.5	23.0	19.5	M10x1.5
12mm	19.5	28.5	24.5	M12x1.75
14mm	20.5	33.0	29.0	M14x2.0
16mm	24.0	38.0	34.0	M16x2.0

## WARNING!

Since the manufacturer is unable to determine all applications in which a part may be placed, it is the user's responsibility to determine the suitability of the part for its intended use. This is especially true where safety is a factor. Incorrect application or installation may result in property damage, bodily injury, or death. For technical assistance, call 260-749-5105.

**Cablecraft**  
Cablecraft Motion Controls

2110 Summit Street  
New Haven, Indiana USA 46774  
Tel 260 749-5105 Fax 260 749-5677

4401 South Orchard Street  
Tacoma, Washington 98411 USA  
Tel 253 475-1080 Fax 253 474-1623

Diplocks Way-South Road  
Hailsham, East Sussex BN27 3JF, England  
Tel 44 1323 841510 Fax 44 1323 845848

[www.cablecraft.com](http://www.cablecraft.com)