



## Typ KFW



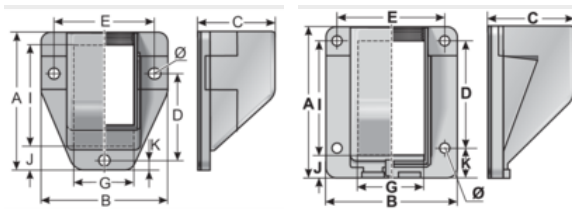
### Product information

The KFW bulkhead fittings are made of specially modified polyamide 6. The material is self-extinguishing, and halogen, phosphor and cadmium-free. Bulkhead fittings are available with a metric or Pg thread. The KFW bulkhead fittings with thread are used with both cable and conduit fittings.

The KFW bulkhead fittings feature the following advantages:

- System divided in two for very quick and easy installation of cables
- Subsequent installation of cables is simplified by removable upper part
- Gasket included in delivery

### Information, conformities and approvals



Article	Order No.	Color	UV	Internal thread	A mm	B mm	C mm	D mm	E mm	G mm	I mm	J mm	K mm	Ø mm	PU pcs.
KFW M16x1,5	83562450	Black	✓	M16x1,5	49	47	35	29	37	22.5	27	11	4.5	4.3	10
KFW M20x1,5	83562452	Black	✓	M20x1,5	49	47	35	29	37	22.5	27	11	4.5	4.3	10
KFW M25x1,5	83562454	Black	✓	M25x1,5	69	65	44	41.5	51.5	30	42.5	15	6	6	10
KFW M32x1,5	83562456	Black	✓	M32x1,5	90	78	55	64.5	64.5	40	68	9	16	6.5	10
KFW M40x1,5	83562458	Black	✓	M40x1,5	99	94	66	79.5	79.5	48.5	74.5	9.5	10	6.5	10
KFW M50x1,5	83562460	Black	✓	M50x1,5	116	101	76	87.5	87.5	68.5	89.5	9.5	16	6.5	10
KFW M16x1,5	83562410	Gray	✗	M16x1,5	49	47	35	29	37	22.5	27	11	4.5	4.3	10
KFW M20x1,5	83562412	Gray	✗	M20x1,5	49	47	35	29	37	22.5	27	11	4.5	4.3	10
KFW M25x1,5	83562414	Gray	✗	M25x1,5	69	65	44	41.5	51.5	30	42.5	15	6	6	10
KFW M32x1,5	83562416	Gray	✗	M32x1,5	90	78	55	64.5	64.5	40	68	9	16	6.5	10
KFW M40x1,5	83562418	Gray	✗	M40x1,5	99	94	66	79.5	79.5	48.5	74.5	9.5	10	6.5	10
KFW M50x1,5	83562420	Gray	✗	M50x1,5	116	101	76	87.5	87.5	68.5	89.5	9.5	16	6.5	10
KFW 11	83561650	Black	✓	PG 11	49	47	35	29	37	22.5	27	11	4.5	4.3	10



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KFW 16	83561652	Black	✓	PG 16	49	47	35	29	37	22.5	27	11	4.5	4.3	10
KFW 21	83561654	Black	✓	PG 21	69	65	44	41.5	51.5	30	42.5	15	6	6	10
KFW 29	83561656	Black	✓	PG 29	90	78	55	64.5	64.5	40	68	9	16	6.5	10
KFW 36	83561658	Black	✓	PG 36	99	94	66	79.5	79.5	48.5	74.5	9.5	10	6.5	10
KFW 48	83561660	Black	✓	PG 48	116	101	76	87.5	87.5	68.5	89.5	9.5	16	6.5	10
KFW 11	83561610	Gray	✗	PG 11	49	47	35	29	37	22.5	27	11	4.5	4.3	10
KFW 16	83561612	Gray	✗	PG 16	49	47	35	29	37	22.5	27	11	4.5	4.3	10
KFW 21	83561614	Gray	✗	PG 21	69	65	44	41.5	51.5	30	42.5	15	6	6	10
KFW 29	83561616	Gray	✗	PG 29	90	78	55	64.5	64.5	40	68	9	16	6.5	10
KFW 36	83561618	Gray	✗	PG 36	99	94	66	79.5	79.5	48.5	74.5	9.5	10	6.5	10
KFW 48	83561620	Gray	✗	PG 48	116	101	76	87.5	87.5	68.5	89.5	9.5	16	6.5	10

### Material properties



Fitting: mod. polyamide PA 6  
Moulded seal: Neoprene (CR) mod. polyamide PA 6  
Neoprene (CR)

### Thermal properties



Temperature / temperature range  
-40 °C - 110 °C / short term: 140 °C

### Protection class



Protection class  
IP65

### Fire properties



Fire classification  
acc. to UL94: V0 self-extinguishing



Fire properties as per EN 45545-2  
C.I.T. R22 / R23 HL3 :0,58 NF X 70-100-1/-2 600°C (1112 °F)  
LOI R22 / R23 HL3 :≥ 32 % ISO 4589-2  
Ds (max.) R22 / R23 HL3 :57 ISO 5659-2 (25 KW/m<sup>2</sup>)



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### Fire properties



Fire properties as per NFPA

ASTM E 162  
ASTM E 1354  
ASTM E 662  
Boeing BSS 7239  
Boeing BSS 7242  
Bombardier SMP 800-C

### Chemical resistances



Resistant to:

Alcohol  
Greases  
Fuels  
Mineral oils

### Technical information



Halogen-free

### Conformity



RoHS (EC Directive 2011/65/EU)

### Approvals and operating permits



EU railway approval



cURus approval

### Classification

ETIM 9: EC001176  
ECLASS 14: 27430312  
UNSPSC 26.0801: 40183103

### General information



Made in Germany

Recommended torques for  
**murrplastik connectors, corrugated  
conduits and cable fittings**



**holders, lock nuts and reducers**





Recommended torques for  
**murrplastik connectors, corrugated conduits and cable fittings,  
holders, lock nuts and reducers**

**Fastening with lock nut**

<b>Metric thread EN 60423</b>	<b>Connecting thread and lock nut made of polyamide</b>	<b>Connection thread and lock nut made of metal</b>
M12x1.5	2.0 Nm	5.0 Nm
M16x1.5	3.0 Nm	7.0 Nm
M20x1.5	4.0 Nm	8.0 Nm
M25x1.5	5.0 Nm	10.0 Nm
M32x1.5	6.0 Nm	12.0 Nm
M40x1.5	11.0 Nm	16.0 Nm
M50x1.5	15.0 Nm	17.0 Nm
M63x1.5	16.0 Nm	18.0 Nm

<b>Pg thread DIN 40430</b>	<b>Connecting thread and lock nut made of polyamide</b>	<b>Connection thread and lock nut made of metal</b>
Pg 7	2.0 Nm	4.0 Nm
Pg 9	2.5 Nm	4.0 Nm
Pg 11	3.5 Nm	6.0 Nm
Pg 13.5	4.0 Nm	7.0 Nm
Pg 16	4.5 Nm	8.0 Nm
Pg 21	7.5 Nm	10.0 Nm
Pg 29	9.0 Nm	13.0 Nm
Pg 36	14.0 Nm	15.0 Nm
Pg 42	15.0 Nm	16.0 Nm
Pg 48	16.0 Nm	17.0 Nm

**Please note the following information:**

- The specified tightening torques are maximum values and should not be exceeded.
- The values are based on measurements under normal climate conditions (23°C / 50% rel. humidity). During assembly and operation, the prevailing climatic conditions should also be taken into account, as these can affect the properties of the components.
- Please consider the properties of the other components with which the murrplastik elements are connected.
- Locking and sealing elements tightened with a lower torque provide better long-term strength.



## Recommended torques for **Screws and nuts**

### Torques for screws and nuts

Thread size	Torques
M4	2.0 Nm
M5	3.0 Nm
M6	4.0 Nm
M8	10.0 Nm
M10	15.0 Nm

### Product examples from our webshop range



**Series m-pro**

on to the product

[shop.murrplastik.de](https://shop.murrplastik.de)



**Series m-fix**

on to the product

[shop.murrplastik.de](https://shop.murrplastik.de)



**UHE Holder**

on to the product

[shop.murrplastik.de](https://shop.murrplastik.de)

More info at

[shop.murrplastik.de](https://shop.murrplastik.de)



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More info at

[murrplastik.de](https://murrplastik.de)