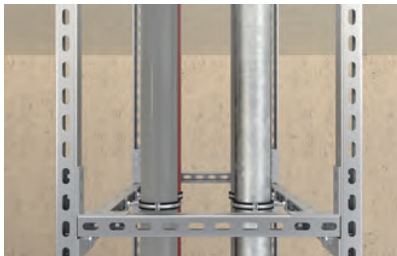


Channel FUS

The universal and complete mounting channel system for a wide range of applications

2c



3D-frame constructions



Solid frame construction

Applications

- Secure horizontal and vertical installations
- Fast and efficient fixing of pipelines and supporting structures

Certificates



Fire resistance classification
R120



MLAR R30

Advantages/benefits

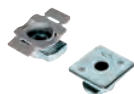
- The fire inspection report in line with MLAR/EN13501 guarantees independently tested functional safety.
- The basic channel geometry allows the usage of the complete extensive range of accessories.
- The stamped teeth in the channel give the sliding nuts a secure hold for high shear loads, e.g. for vertical installation.
- Different channel wall thicknesses allow economical choices for installation.
- The scale on the mounting channels simplifies the cutting and positioning of the fixtures during the installation.

Properties

- Material: pre-galvanised steel S-250-GD+Z275 (material no.: 1.0242) acc. to DIN EN 10346

See also

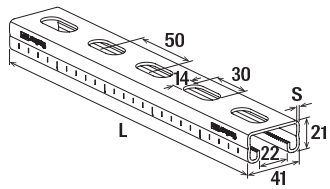
Connector FCN
Clix P/M



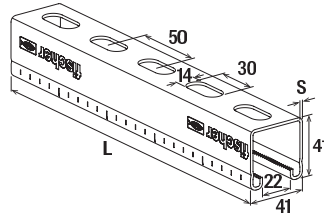
Rail rubber insert
EMS



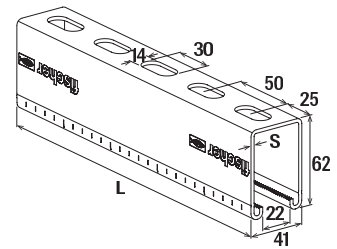
Technical data



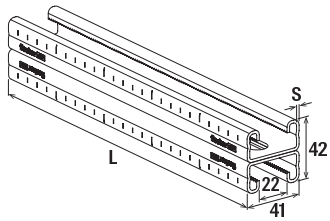
FUS 21



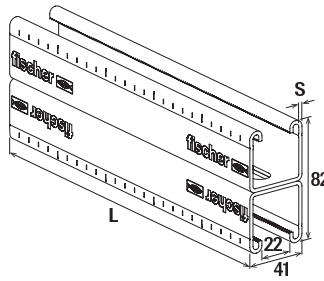
FUS 41



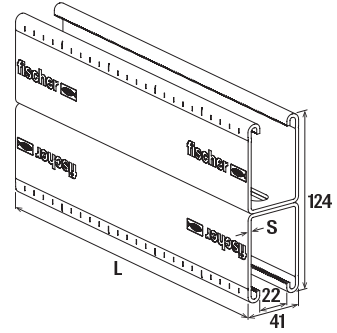
FUS 62



FUS 21D



FUS 41D



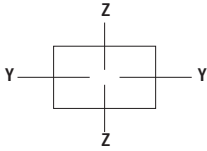
FUS 62D

2c

Item	Item No.	Fire test report	Length L [mm]	Thickness S [mm]	Sales unit [pcs]
FUS 21/1,5 - 2 m	545117	—	2000	1.5	1
FUS 21/1,5 - 3 m	545118	—	3000	1.5	1
FUS 21/1,5 - 6 m	545119	1)	6000	1.5	1
FUS 21/2,0 - 2 m	040391	—	2000	2	1
FUS 21/2,0 - 3 m	097660	—	3000	2	1
FUS 21/2,0 - 6 m	097661	—	6000	2	1
FUS 21/2,5 - 2 m	092867	—	2000	2.5	1
FUS 21/2,5 - 3 m	077349	—	3000	2.5	1
FUS 21/2,5 - 6 m	077541	—	6000	2.5	1
FUS 41/1,5 - 2 m	545120	—	2000	1.5	1
FUS 41/1,5 - 3 m	545126	—	3000	1.5	1
FUS 41/1,5 - 6 m	545127	—	6000	1.5	1
FUS 41/2,0 - 2 m	040390	—	2000	2	1
FUS 41/2,0 - 3 m	097658	—	3000	2	1
FUS 41/2,0 - 6 m	097659	—	6000	2	1
FUS 41/2,5 - 2 m	092295	X	2000	2.5	1
FUS 41/2,5 - 3 m	077347	X	3000	2.5	1
FUS 41/2,5 - 6 m	077537	X	6000	2.5	1
FUS 62/2,5 - 6 m	504457	X	6000	2.5	1
FUS 21D/2,0 - 3 m	504458	—	3000	2	1
FUS 21D/2,0 - 6 m	535531	—	6000	2	1
FUS 41D/2,5 - 6 m	504459	—	6000	2.5	1
FUS 62D/2,5 - 6 m	504460	—	6000	2.5	1

1) Delivery time on request.

Loads

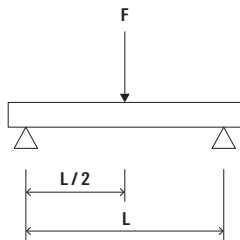


2c

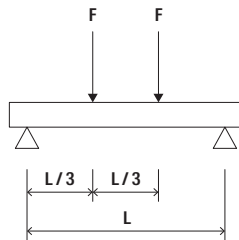
Item	Item No.	Profil weight [kg/m]	Profile cross section [cm ²]	Moment of inertia	Moment of inertia	Section modulus	Section modulus	Max. recommended static load for 1m length	Max. recommended static load for 2m length	Max. recommended static load for 3m length
				I_y [cm ⁴]	I_z [cm ⁴]	W_y [cm ³]	W_z [cm ³]	F_{rec} [kN]	F_{rec} [kN]	F_{rec} [kN]
FUS 21/1,5 - 2 m	545117	1.20	1.35	0.8	3.69	0.75	1.80	0.41	0.10	—
FUS 21/1,5 - 3 m	545118	1.20	1.35	0.8	3.69	0.75	1.80	0.41	0.10	—
FUS 21/1,5 - 6 m	545119 ¹⁾	1.20	1.35	0.8	3.69	0.75	1.80	0.41	0.10	—
FUS 21/2,0 - 2 m	040391	1.44	1.72	0.97	4.66	0.89	2.27	0.49	0.12	—
FUS 21/2,0 - 3 m	097660	1.44	1.72	0.97	4.66	0.89	2.27	0.49	0.12	0.05
FUS 21/2,0 - 6 m	097661	1.44	1.72	0.97	4.66	0.89	2.27	0.49	0.12	0.05
FUS 21/2,5 - 2 m	092867	1.67	1.99	1.03	5.28	0.93	2.58	0.52	0.13	—
FUS 21/2,5 - 3 m	077349	1.67	1.99	1.03	5.28	0.93	2.58	0.52	0.13	0.06
FUS 21/2,5 - 6 m	077541	1.67	1.99	1.03	5.28	0.93	2.58	0.52	0.13	0.06
FUS 41/1,5 - 2 m	545120	1.80	1.95	4.26	6.03	2.07	2.94	1.56	0.54	—
FUS 41/1,5 - 3 m	545126	1.80	1.95	4.26	6.03	2.07	2.94	1.56	0.54	0.24
FUS 41/1,5 - 6 m	545127	1.80	1.95	4.26	6.03	2.07	2.94	1.56	0.54	0.24
FUS 41/2,0 - 2 m	040390	2.06	2.52	5.33	7.69	2.58	3.75	1.94	0.67	—
FUS 41/2,0 - 3 m	097658	2.06	2.52	5.33	7.69	2.58	3.75	1.94	0.67	0.30
FUS 41/2,0 - 6 m	097659	2.06	2.52	5.33	7.69	2.58	3.75	1.94	0.67	0.30
FUS 41/2,5 - 2 m	092295	2.45	3.00	6.00	8.99	2.85	4.38	2.14	0.76	—
FUS 41/2,5 - 3 m	077347	2.45	3.00	6.00	8.99	2.85	4.38	2.14	0.76	0.34
FUS 41/2,5 - 6 m	077537	2.45	3.00	6.00	8.99	2.85	4.38	2.14	0.76	0.34
FUS 62/2,5 - 6 m	504457	3.27	4.05	17.70	12.90	5.62	6.29	4.22	2.10	0.99
FUS 21D/2,0 - 3 m	504458	2.87	3.44	5.49	9.31	2.61	4.54	1.96	0.69	0.31
FUS 21D/2,0 - 6 m	535531	2.87	3.44	5.49	9.31	2.61	4.54	1.96	0.69	0.31
FUS 41D/2,5 - 6 m	504459	4.89	6.00	35.01	17.90	8.76	8.78	6.58	3.28	1.96
FUS 62D/2,5 - 6 m	504460	6.55	8.09	111.00	25.80	17.90	12.58	13.45	6.72	4.47

1) Delivery time on request.

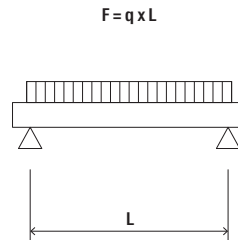
Load case 1



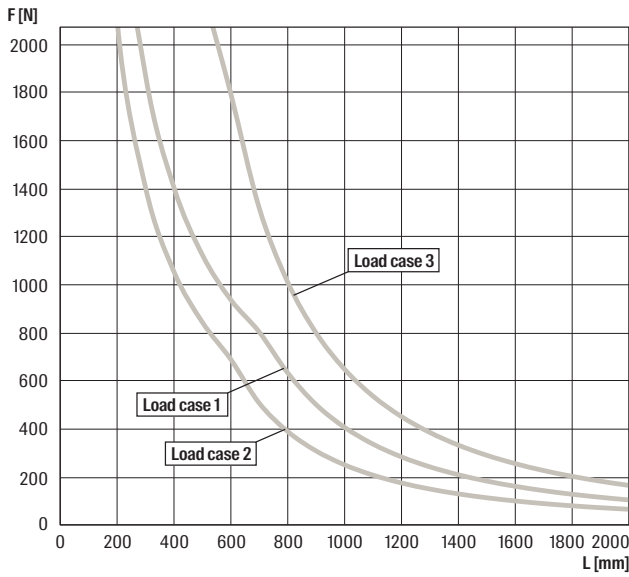
Load case 2



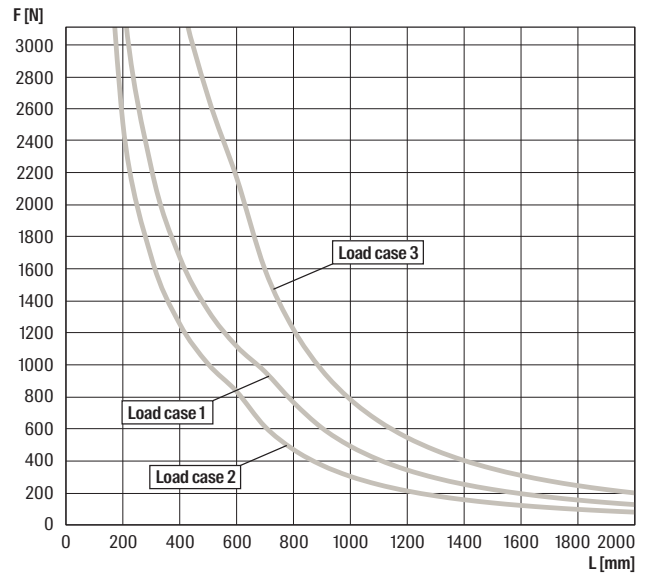
Load case 3



FUS 21/1,5



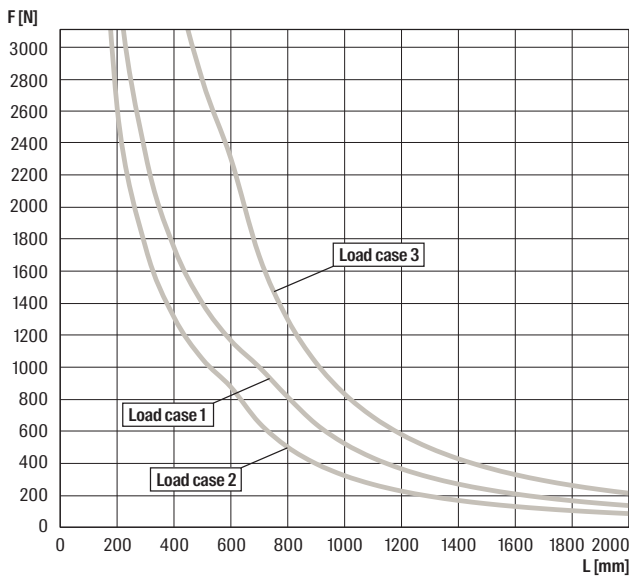
FUS 21/2,0



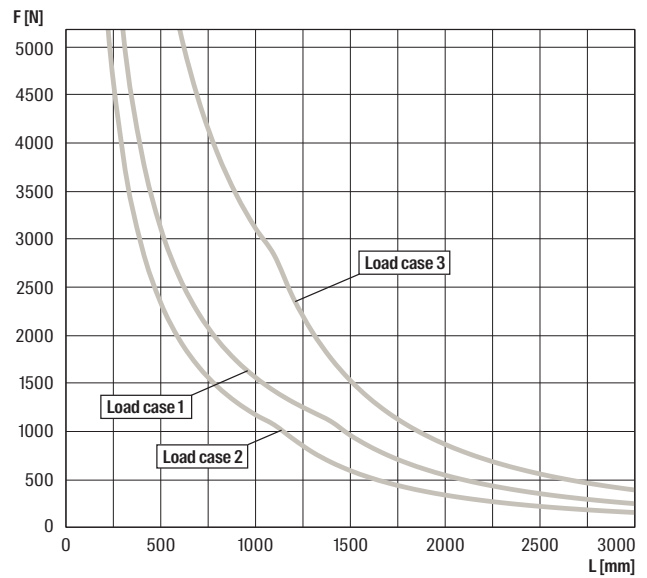
2c

For the load curves, the permissible steel strain $\delta_{adm.} = 188 \text{ N/mm}$ and the maximum deflection under load $L/200$ are not exceeded. Fixings and screw fastenings must be calculated accordingly. The increased yield strength is calculated according DIN EN 1993-1-3:2010-12, sec. 3.2.2.

FUS 21/2,5

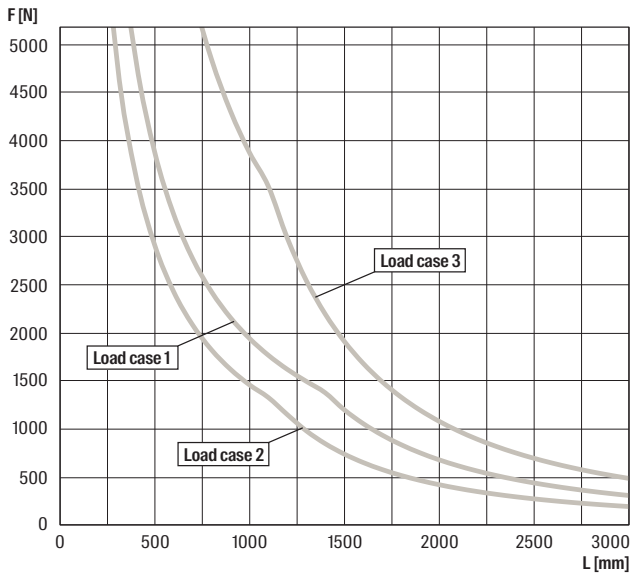


FUS 41/1,5

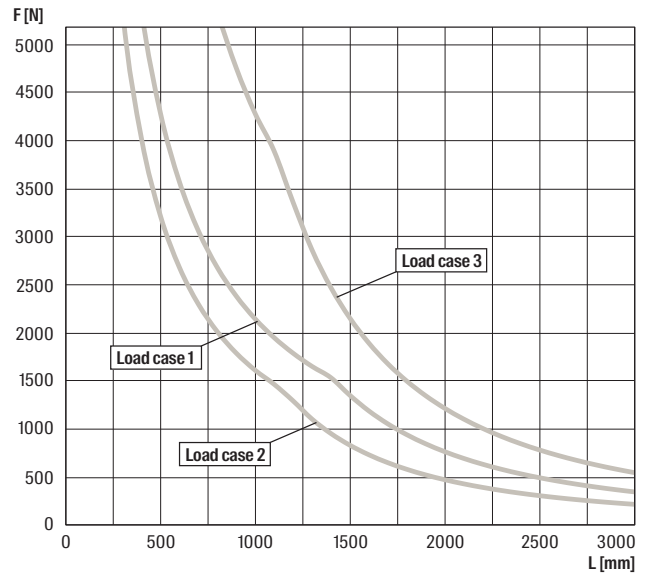


For the load curves, the permissible steel strain $\delta_{adm.} = 188 \text{ N/mm}$ and the maximum deflection under load $L/200$ are not exceeded. Fixings and screw fastenings must be calculated accordingly. The increased yield strength is calculated according DIN EN 1993-1-3:2010-12, sec. 3.2.2.

FUS 41/2,0

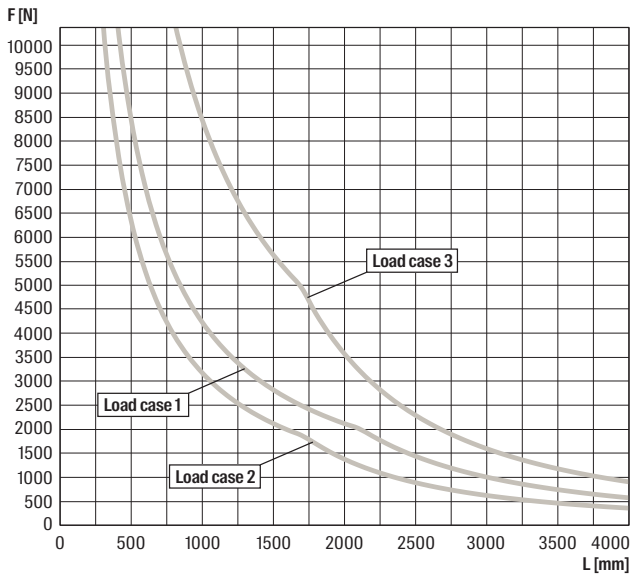


FUS 41/2,5

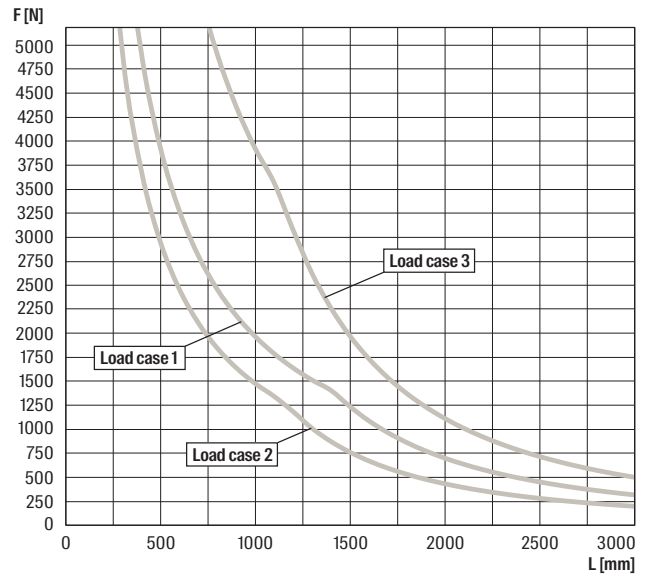


For the load curves, the permissible steel strain $\delta_{adm} = 188$ N/mm and the maximum deflection under load $L/200$ are not exceeded. Fixings and screw fastenings must be calculated accordingly. The increased yield strength is calculated according DIN EN 1993-1-3:2010-12, sec. 3.2.2.

FUS 62/2,5



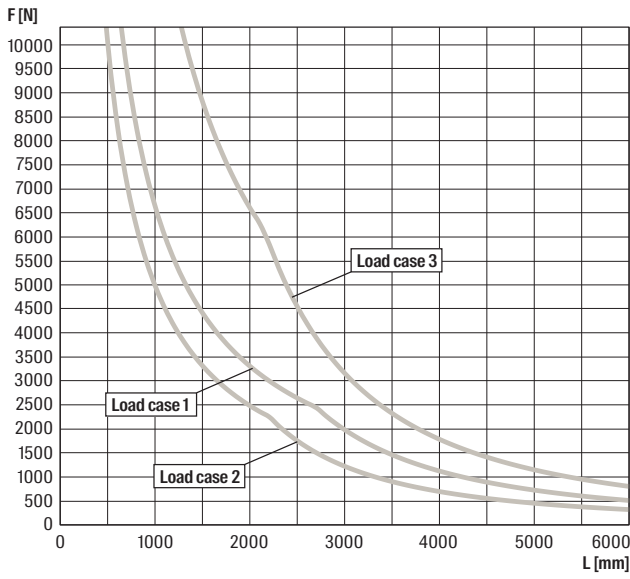
FUS 21D/2,0



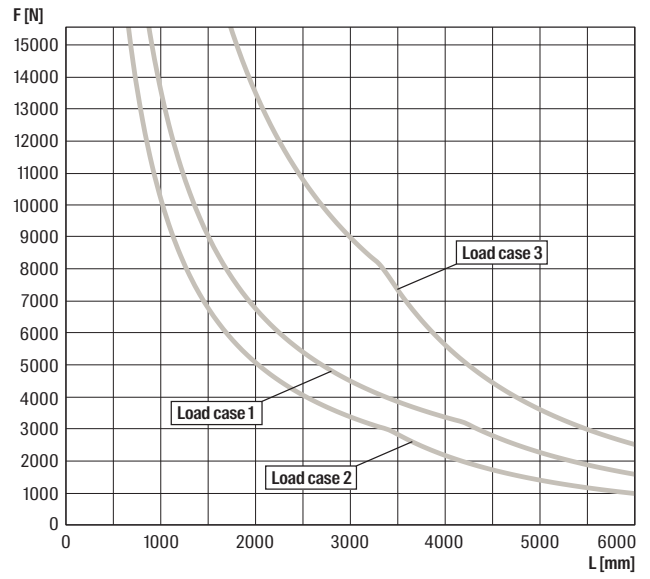
For the load curves, the permissible steel strain $\delta_{adm} = 188$ N/mm and the maximum deflection under load $L/200$ are not exceeded. Fixings and screw fastenings must be calculated accordingly. The increased yield strength is calculated according DIN EN 1993-1-3:2010-12, sec. 3.2.2.

2c

FUS 41D/2,5



FUS 62D/2,5



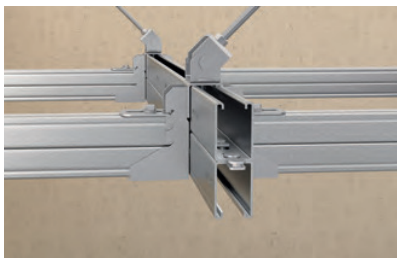
For the load curves, the permissible steel strain $\delta_{adm.} = 188 \text{ N/mm}$ and the maximum deflection under load $L/200$ are not exceeded. Fixings and screw fastenings must be calculated accordingly. The increased yield strength is calculated according DIN EN 1993-1-3:2010-12, sec. 3.2.2.

2c

Channel connector FDCC

Channel connector for easy preparation of FUS double channels

2c



FUS double channel with channel connector

Applications

- Easy construction of double channels made from the FUS channel assortment.
- Suitable for FUS channels FUS 41 and FUS 62 with thickness 2,0 and 2,5 mm.
- The connection of two single channels is made with the channel connector inside the channel slots.
- Each double channel has to be equipped with an FDCC at both ends and additional FDCCs in the given installation distance as per load chart.

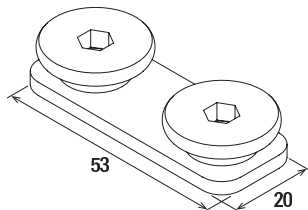
Advantages/Benefits

- Easy connection of single channels back to back to built double channels.
- Simple solution to create individual double channels on job site.
- For dry inside environment.

Properties

- Material base plate: JIS G3131-SPHE (similar to DD13 according to DIN EN 10111, material no.: 1.0335)
- Material screw: steel grade 8.8
- Zinc plating: electro zinc-plated, min. 5 µm

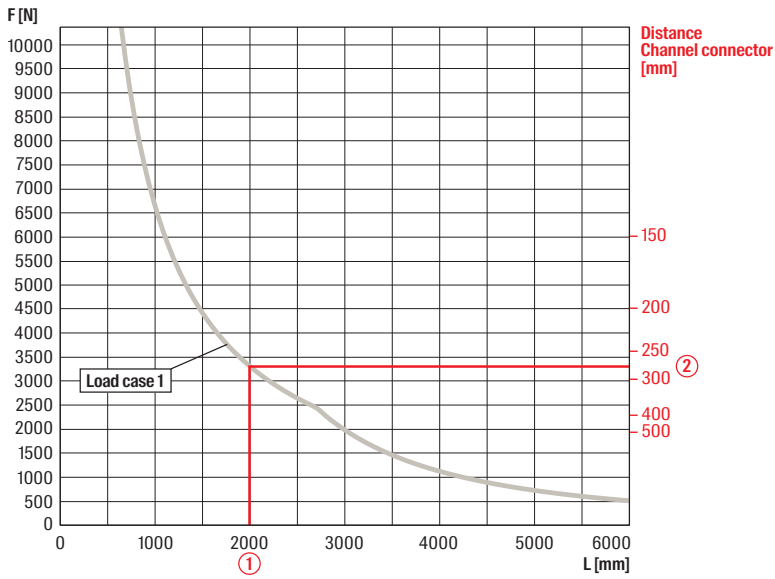
Technical data



FDCC

Item	Item No.	Thread A	Drive	Tightening torque T_{inst} [Nm]	Sales unit [pcs]
FDCC	546148	M 10	Hexagon socket 5 mm	25	100

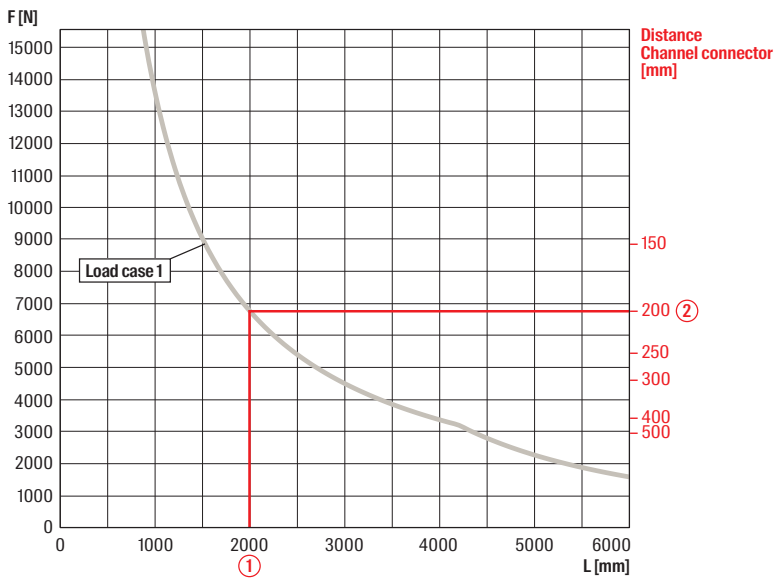
FUS 41D/2,0 - 2,5



- ① Length of channel, i.e. 2000 mm for loadcase 1 (single load centric)
- ② Distance of channel connector (for intermediate values use the lower value, i.e. 250 mm)

2c

FUS 62D/2,5



- ① Length of channel, i.e. 2000 mm for loadcase 1 (single load centric)
- ② Distance of channel connector (for intermediate values use the lower value, i.e. 250 mm)

Load case 1

