

Cable Fittings: Barrier Cable Gland and Conduit Seals for Non-Armoured Cable, DNAFB Series

Flameproof/ Increased Safety and Dust protection by enclosure

Zone 1 & 2 – 21 & 22



Application

The DNAFB cable glands are designed for the insertion of normal non-armoured cables into Ex db or Ex eb certified equipment or enclosures. The gland nut is equipped with either female or male thread ends.

Specification

Body, gland nut : Brass
(optional nickel-plated brass)
Thread seal : Nylon (PA6)
(for metric threads only)
Seal : Putty compound, -40°C to +120°C
(2-part; resin/hardener)

Technical Data

Hazardous Area Zones	Gas	Dust
Equipment Group/Category	1 & 2	21 & 22
Symbol of Protection	Ex II 2G	Ex II 2D
Certificate	Ex db IIC Gb / Ex eb IIC Gb	Ex tb IIC Db
T Rating	KDB 24 ATEX 0021X IECEx KDB 24.0005X	
Conformity to Standards	Temperature class of enclosure to which will be connected. EN IEC 60079-0, EN 60079-1, EN IEC 60079-7, EN IEC 60079-31 IEC 60079-0, IEC 60079-1, IEC 60079-7, IEC 60079-31	
Ambeint Temperature	-40°C to +75°C	
Index of Protection	IP66	

Note: Cables for fixed installations shall have flame propagation characteristics that enable them to withstand the tests according to IEC 60332-1-2 or IEC 60332-3-22.

Catalogue Number Logic

Female threads gland nut (NPT)

DNAFB /	■	-	■	□	-	□
Series	Body	Thread type	Threads ended	Option		
S	Small	Nx NPT	NxF NPT (Female threads)	NI Nickel-plated		
M	Medium	Mx Metric				
L	Large					

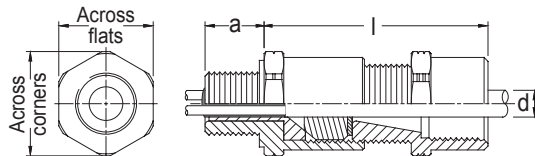
Putty compound



Component-A (Blue)

Component-B (Orange brown)

Ordering Requirements



Brass



Nickel-plated brass

Cat. No.	Entry threads (Male)		Cable dia. outer 'd'	Gland nut (Female, NPT)	Dimensions in mm				Approx. weight (kg)
	Metric	NPT			l	a	Across corners	Across flats	
DNAFB /S -M0 N1F -□	M16x1.5	-	3.0-8.6	1/2"	53.2	15.0	26.5	24.0	0.08
DNAFB /S -M1 N1F -□	M20x1.5	-			51.8	19.8	26.5	24.0	0.10
DNAFB /S -N1 N1F -□	-	1/2"			54.2	15.0	26.5	24.0	0.11
DNAFB /M -M1 N1F -□	M20x1.5	-	6.1-11.9	1/2"	52.8	19.8	26.5	24.0	0.10
DNAFB /M -N1 N1F -□	-	1/2"			54.2	15.0	35.0	31.75	0.11
DNAFB /L -M1 N1F -□	M20x1.5	-			52.8	19.8	35.0	31.75	0.16
DNAFB /S -M2 N2F -□	M25x1.5	-	6.5-14.3	3/4"	52.8	20.1	35.0	31.75	0.12
DNAFB /L -N1 N1F -□	-	1/2"			52.7	20.1	35.0	31.75	0.17
DNAFB /S -N2 N2F -□	-	3/4"			55.2	15.0	42.0	38.1	0.17
DNAFB /M -M2 N2F -□	M25x1.5	-	11.1-20.2	3/4"	57.2	25.0	42.0	38.1	0.23
DNAFB /S -M3 N3F -□	M32x1.5	-			54.2	20.1	42.0	38.1	0.25
DNAFB /M -N2 N2F -□	-	3/4"			56.2	25.0	42.0	38.1	0.28
DNAFB /S -N3 N3F -□	-	1"	17.0-26.5	1"	58.2	25.0	49.0	44.4	0.23
DNAFB /M -M3 N3F -□	M32x1.5	-			58.7	25.0	49.0	44.4	0.31
DNAFB /S -M4 N4F -□	M40x1.5	-			57.2	25.0	49.0	44.4	0.25
DNAFB /M -N3 N3F -□	-	1"	22.0-32.5	1-1/4"	57.7	25.6	49.0	44.4	0.40
DNAFB /S -N4 N4F -□	-	1-1/4"			60.2	15.0	56.0	50.8	0.30
DNAFB /M -M4 N4F -□	M40x1.5	-			60.2	15.0	56.0	50.8	0.45
DNAFB /S -M5 N5F -□	M50x1.5	-	29.5-38.1	1-1/2"	59.2	25.6	63.0	57.1	0.37
DNAFB /M -N4 N4F -□	-	1-1/4"			61.2	15.0	63.0	57.1	0.49
DNAFB /S -N5 N5F -□	-	1-1/2"			60.2	26.0	63.0	57.1	0.42
DNAFB /M -M5 N5F -□	M50x1.5	-	35.6-44.0	1-1/2"	62.2	15.0	70.0	63.5	0.46
DNAFB /S -M6 N6F -□	M63x1.5	-			62.7	15.0	77.0	70.0	0.48
DNAFB /M -N5 N5F -□	-	1-1/2"			61.2	26.0	70.0	63.5	0.72
DNAFB /S -N6 N6F -□	-	2"	39.0-44.0	2"	61.7	26.9	77.0	70.0	0.60
DNAFB /M -M6 N6F -□	M63x1.5	-			62.7	15.0	84.0	76.2	0.80
DNAFB /S -N7 N7F -□	-	2"			68.7	26.9	84.0	76.2	0.63
DNAFB /M -M6S N6F -□	M63x1.5	-	44.1-54.0	2-1/2"	68.7	39.9	99.0	88.9	0.63
DNAFB /S -M7S N7F -□	M75x1.5	-			62.7	15.0	99.0	88.9	1.00
DNAFB /M -N6 N6F -□	-	2"			62.7	26.9	84.0	76.2	0.84
DNAFB /S -N7L N7F -□	-	2-1/2"			68.7	39.9	99.0	88.9	1.56
DNAFB /M -M6L N6F -□	M63x1.5	-			62.7	15.0	84.0	76.2	0.63
DNAFB /S -N7L N7F -□	-	2-1/2"			68.7	39.9	99.0	88.9	1.00
DNAFB /M -N6L N6F -□	-	2"			62.7	26.9	84.0	76.2	0.84
DNAFB /S -N7L N7F -□	-	2-1/2"			68.7	39.9	99.0	88.9	1.56

Thread seal



Body (Entry threads)



Compound tube



Neoprene inner sealing ring

Sealing washer



Gland nut Female Threads ended

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Flameproof/ Increased Safety and Dust protection by enclosure

Zone 1 & 2 – 21 & 22

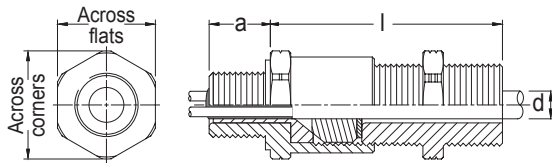
Catalogue Number Logic

Male threads gland nut (NPT)

DNAFB /

Series	Body	Thread type	Threads ended	Option
	S Small	Nx NPT	NxM NPT (Male threads)	NI Nickel-plated
	M Medium	Mx Metric		
	L Large			

Ordering Requirements



Brass



Nickel-plated brass

Cat. No.	Entry threads (Male)		Cable dia. outer 'd'	Gland nut (Male, NPT)	Dimensions in mm				Approx. weight (kg)
	Metric	NPT			l	a	Across corners	Across flats	
DNAFB /S -M0 N1M -□	M16x1.5	-	3.0-8.6	1/2"	58.6	15.0	26.5	24.0	0.08
DNAFB /S -M1 N1M -□	M20x1.5	-							0.10
DNAFB /S -N1 N1M -□	-	1/2"			57.2	19.8	26.5	24.0	0.11
DNAFB /M -M1 N1M -□	M20x1.5	-	6.1-11.9	1/2"	59.6	15.0	26.5	24.0	0.10
DNAFB /M -N1 N1M -□	-	1/2"			58.2	19.8	26.5	24.0	0.10
DNAFB /L -M1 N1M -□	M20x1.5	-			59.6	15.0	35.0	31.75	0.11
DNAFB /S -M2 N2M -□	M25x1.5	-	6.5-14.3	3/4"	59.9	15.0	35.0	31.75	0.16
DNAFB /L -N1 N1M -□	-	1/2"			58.7	19.8	35.0	31.75	0.12
DNAFB /S -N2 N2M -□	-	3/4"			58.4	20.1	35.0	31.75	0.17
DNAFB /M -M2 N2M -□	M25x1.5	-	11.1-20.2	3/4"	60.9	15.0	42.0	38.1	0.17
DNAFB /S -M3 N3M -□	M32x1.5	-			65.7	15.0	42.0	38.1	0.23
DNAFB /M -N2 N2M -□	-	3/4"			59.9	20.1	42.0	38.1	0.25
DNAFB /S -N3 N3M -□	-	1"	17.0-26.5	1"	64.7	25.0	42.0	38.1	0.28
DNAFB /M -M3 N3M -□	M32x1.5	-			66.7	15.0	49.0	44.4	0.23
DNAFB /S -M4 N4M -□	M40x1.5	-			67.3	15.0	49.0	44.4	0.31
DNAFB /M -N3 N3M -□	-	1"	22.0-32.5	1-1/4"	65.7	25.0	49.0	44.4	0.25
DNAFB /S -N4 N4M -□	-	1-1/4"			66.3	25.6	49.0	44.4	0.40
DNAFB /M -M4 N4M -□	M40x1.5	-			69.3	15.0	56.0	50.8	0.30
DNAFB /S -M5 N5M -□	M50x1.5	-	29.5-38.1	1-1/2"	69.7	15.0	56.0	50.8	0.45
DNAFB /M -N4 N4M -□	-	1-1/4"			68.3	25.6	56.0	50.8	0.37
DNAFB /S -N5 N5M -□	-	1-1/2"			68.7	26.0	63.0	57.1	0.49
DNAFB /M -M5 N5M -□	M50x1.5	-	35.6-44.0	1-1/2"	70.7	15.0	63.0	57.1	0.42
DNAFB /S -N6 N6M -□	-	1-1/2"			69.7	26.0	63.0	57.1	0.46
DNAFB /L -M5 N5M -□	M50x1.5	-			72.7	15.0	70.0	63.5	0.48
DNAFB /S -M6 N6M -□	M63x1.5	-	39.0-44.0	2"	73.6	15.0	77.0	70.0	0.72
DNAFB /L -N5 N5M -□	-	1-1/2"			71.7	26.0	70.0	63.5	0.60
DNAFB /S -N6 N6M -□	-	2"			72.6	26.9	77.0	70.0	0.80
DNAFB /M -M6S N6M -□	M63x1.5	-	44.1-54.0	2-1/2"	73.6	15.0	84.0	76.2	0.63
DNAFB /S -M7S N7M -□	M75x1.5	-			86.6	15.0	99.0	88.9	1.00
DNAFB /M -N6S N6M -□	-	2"			73.6	26.9	84.0	76.2	0.84
DNAFB /S -N7S N7M -□	-	2-1/2"	44.1-54.0	2-1/2"	86.6	39.9	99.0	88.9	1.56
DNAFB /M -M6L N6M -□	M63x1.5	-			73.6	15.0	84.0	76.2	0.63
DNAFB /S -M7L N7M -□	M75x1.5	-			86.6	15.0	99.0	88.9	1.00
DNAFB /M -N6L N6M -□	-	2"	44.1-54.0	2"	73.6	26.9	84.0	76.2	0.84
DNAFB /S -N7L N7M -□	-	2-1/2"			86.6	39.9	99.0	88.9	1.56

Thread seal



Body (Entry threads)



Compound tube



Neoprene inner sealing ring

Sealing washer



Gland nut Male Threads ended

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Flameproof/ Increased Safety and Dust protection by enclosure

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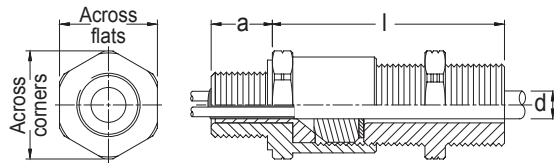


Catalogue Number Logic

Male threads gland nut (Metric)

DNAFB /	■	■	⬡	□
Series	Body	Thread type	Threads ended	Option
S	Small	Nx NPT	MxM Metric (Male threads)	NI Nickel-plated
M	Medium	Mx Metric		
L	Large			

Ordering Requirements



Brass



Nickel-plated brass

Cat. No.	Entry threads (Male)		Cable dia. outer 'd'	Gland nut (Male, Metric)	Dimensions in mm				Approx. weight (kg)
	Metric	NPT			l	a	Across corners	Across flats	
DNAFB /S -M0 M1M-□	M16x1.5	-	3.0-8.6	M20x1.5	53.7	15.0	26.5	24.0	0.08
DNAFB /S -M1 M1M-□	M20x1.5	-							0.10
DNAFB /S -N1 M1M-□	-	1/2"			52.3	19.8	26.5	24.0	0.11
DNAFB /M -M1 M1M-□	M20x1.5	-	6.1-11.9	M20x1.5	54.7	15.0	26.5	24.0	0.10
DNAFB /M -N1 M1M-□	-	1/2"			53.3	19.8	26.5	24.0	0.10
DNAFB /L -M1 M1M-□	M20x1.5	-							0.11
DNAFB /S -M2 M2M-□	M25x1.5	-	6.5-14.3	M25x1.5	54.7	15.0	35.0	31.75	0.16
DNAFB /L -N1 M1M-□	-	1/2"		M20x1.5	53.8	19.8	35.0	31.75	0.12
DNAFB /S -N2 M2M-□	-	3/4"		M25x1.5	53.2	20.1	35.0	31.75	0.17
DNAFB /M -M2 M2M-□	M25x1.5	-	11.1-20.2	M25x1.5	55.7	15.0	42.0	38.1	0.17
DNAFB /S -M3 M3M-□	M32x1.5	-		M32x1.5					0.23
DNAFB /M -N2 M2M-□	-	3/4"		M25x1.5	54.7	20.1	42.0	38.1	0.25
DNAFB /S -N3 M3M-□	-	1"	17.0-26.5	M32x1.5		25.0	42.0	38.1	0.28
DNAFB /M -M3 M3M-□	M32x1.5	-		M32x1.5	56.7	15.0	49.0	44.4	0.23
DNAFB /S -M4 M4M-□	M40x1.5	-		M40x1.5					0.31
DNAFB /M -N3 M3M-□	-	1"	22.0-32.5	M32x1.5	55.7	25.0	49.0	44.4	0.25
DNAFB /S -N4 M4M-□	-	1-1/4"		M40x1.5		25.6	49.0	44.4	0.40
DNAFB /M -M4 M4M-□	M40x1.5	-		M40x1.5	58.7	15.0	56.0	50.8	0.30
DNAFB /S -M5 M5M-□	M50x1.5	-	29.5-38.1	M50x1.5					0.45
DNAFB /M -N4 M4M-□	-	1-1/4"		M40x1.5	57.7	25.6	56.0	50.8	0.37
DNAFB /S -N5 M5M-□	-	1-1/2"		M50x1.5		26.0	63.0	57.1	0.49
DNAFB /M -M5 M5M-□	M50x1.5	-	35.6-44.0	M50x1.5	59.7	15.0	63.0	57.1	0.42
DNAFB /M -N5 M5M-□	-	1-1/2"		M50x1.5	58.7	26.0	63.0	57.1	0.46
DNAFB /L -M5 M5M-□	M50x1.5	-		M50x1.5	61.7	15.0	70.0	63.5	0.48
DNAFB /S -M6 M6M-□	M63x1.5	-	39.0-44.0	M63x1.5			77.0	70.0	0.72
DNAFB /L -N5 M5M-□	-	1-1/2"		M50x1.5	60.7	26.0	70.0	63.5	0.60
DNAFB /S -N6 M6M-□	-	2"		M63x1.5		26.9	77.0	70.0	0.80
DNAFB /M -M6S M6M-□	M63x1.5	-	44.1-54.0	M63x1.5	61.7	15.0	84.0	76.2	0.63
DNAFB /S -M7S M7M-□	M75x1.5	-		M75x1.5			99.0	88.9	1.00
DNAFB /M -N6S M6M-□	-	2"		M63x1.5	61.7	26.9	84.0	76.2	0.84
DNAFB /S -N7S M7M-□	-	2-1/2"		M75x1.5		39.9	99.0	88.9	1.56
DNAFB /M -M6L M6M-□	M63x1.5	-		M63x1.5	61.7	15.0	84.0	76.2	0.63
DNAFB /S -M7L M7M-□	M75x1.5	-		M75x1.5		26.9	99.0	88.9	1.00
DNAFB /M -N6L M6M-□	-	2"		M63x1.5	61.7	26.9	84.0	76.2	0.84
DNAFB /S -N7L M7M-□	-	2-1/2"		M75x1.5		39.9	99.0	88.9	1.56

Thread seal



Body (Entry threads)



Compound tube



Neoprene inner sealing ring



Sealing washer



Gland nut Male Threads ended