

Round cable entry, Material: polyamide PA 6.6, glass-fibre reinforced | TPE, Colour: Black

**RAL:** 9005

### Business data

Article number	<u>28770.4</u>
Article name	KDS-R 20-32 BK
GTIN (EAN)	4044211234508
Packaging unit	5
Quantity unit	PC
Weight per piece (not including packaging)	13.4 g
Weight per piece (including packaging)	18.76 g
Unit of weight	G
Customs number	39259020
Country of origin	DE
Product description	Cable Entry
Colour	Black

### Technical data

#### Dimensions

Length	47.5 mm
Width	47.5 mm
Height	21.5 mm
Installation height	21.5 mm

#### Thread

Thread type	Metric
Thread size	34 mm
Thread pitch	1.5 mm
Thread length (L)	7.2 mm

#### Materials

Material	Polyamide 6.6
Glass-fibre reinforced	✓
Flammability class UL 94	V-0
Working temperature, min.	-40 °C
Working temperature, max.	120 °C
Sealing material	TPE
Halogen-free	✓
Silicone-free	✓

#### Further technical data

Mounting type	Screws
Degree of protection	IP66
Spanner width (AF)	38 mm
NEMA Type	1, 12, 4x (indoor use only)

#### Environmental Product Compliance

REACH Conform	yes
REACH Reference date	2024-01-23
REACH Candidate Substance Note	No
RoHS Conform	yes

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### Approvals

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#### cUL Recognized

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cUL approval	C22.2 No. 14-18
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cUL File Number	E489821
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cUL Recognized	1
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#### UL Recognized

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UL approval	UL 508A
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UL File Number	E489821
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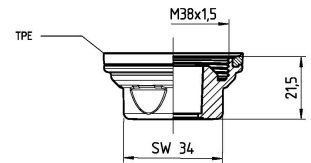
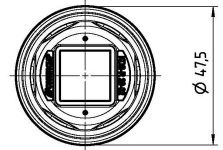
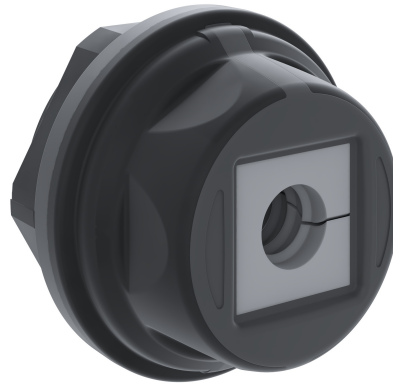
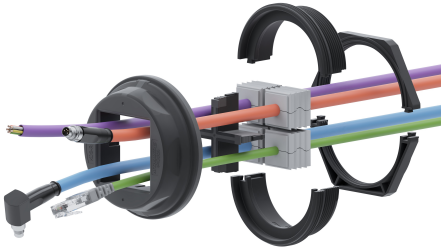
UL Recognized	1
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UL Type Rating	1, 12, 4x (indoor use only)
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### Media



### Accessories

#### Small Seals



Seal, Mounting type: Plug in, Length x width: 20.3 mm, Max. cable diameter: 7 mm, IP 66, Colour: Grey

Article number	Article name	GTIN (EAN)	Packaging unit
<u>28567.6</u>	KDS-DE 6-7 GR	4044211211059	10 ST



Seal, Mounting type: Plug in, Length x width: 20.3 mm, Max. cable diameter: 8 mm, IP 66, Colour: Grey

Article number	Article name	GTIN (EAN)	Packaging unit
<u>28568.6</u>	KDS-DE 7-8 GR	4044211211066	10 ST



Seal, Mounting type: Plug in, Length x width: 20.3 mm, Max. cable diameter: 9 mm, IP 66, Colour: Grey

Article number	Article name	GTIN (EAN)	Packaging unit
<u>28569.6</u>	KDS-DE 8-9 GR	4044211211073	10 ST



Seal, Mounting type: Plug in, Length x width: 20.3 mm, Max. cable diameter: 10 mm, IP 66, Colour: Grey

Article number	Article name	GTIN (EAN)	Packaging unit
<u>28570.6</u>	KDS-DE 9-10 GR	4044211211080	10 ST



Seal, Mounting type: Plug in, Length x width: 20.3 mm, Max. cable diameter: 11 mm, IP 66, Colour: Grey

Article number	Article name	GTIN (EAN)	Packaging unit
<u>28571.6</u>	KDS-DE 10-11 GR	4044211211097	10 ST



Seal, Mounting type: Plug in, Length x width: 20.3 mm, Max. cable diameter: 12 mm, IP 66, Colour: Grey

Article number	Article name	GTIN (EAN)	Packaging unit
<u>28572.6</u>	KDS-DE 11-12 GR	4044211211103	10 ST

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### Small Seals



Seal, Mounting type: Plug in, Length x width: 20.3 mm, Max. cable diameter: 13 mm, IP 66, Colour: Grey

Article number	Article name	GTIN (EAN)	Packaging unit
<u>28573.6</u>	KDS-DE 12-13 GR	4044211215224	10 ST



Seal, Mounting type: Plug in, Length x width: 20.3 mm, Max. cable diameter: 3 mm, IP 66, Colour: Grey

Article number	Article name	GTIN (EAN)	Packaging unit
<u>28563.6</u>	KDS-DE 2-3 GR	4044211211011	10 ST



Seal, Mounting type: Plug in, Length x width: 20.3 mm, Max. cable diameter: 4 mm, IP 66, Colour: Grey

Article number	Article name	GTIN (EAN)	Packaging unit
<u>28564.6</u>	KDS-DE 3-4 GR	4044211211028	10 ST



Seal, Mounting type: Plug in, Length x width: 20.3 mm, Max. cable diameter: 5 mm, IP 66, Colour: Grey

Article number	Article name	GTIN (EAN)	Packaging unit
<u>28565.6</u>	KDS-DE 4-5 GR	4044211211035	10 ST



Seal, Mounting type: Plug in, Length x width: 20.3 mm, Max. cable diameter: 6 mm, IP 66, Colour: Grey

Article number	Article name	GTIN (EAN)	Packaging unit
<u>28566.6</u>	KDS-DE 5-6 GR	4044211211042	10 ST



Seal, Mounting type: Plug in, Length x width: 20.3 mm, Max. cable diameter: 14 mm, IP 66, Colour: Grey

Article number	Article name	GTIN (EAN)	Packaging unit
<u>28574.6</u>	KDS-DE 13-14 GR	4044211215231	10 ST

## 28770.4 KDS-R 20-32 BK

### Small Seals



Seal, Mounting type: Plug in, Length x width: 20.3 mm, Max. cable diameter: 5 mm, IP 66, Colour: Grey

Article number	Article name	GTIN (EAN)	Packaging unit
<u>28595.6</u>	KDS-DE 2X4-5 GR	4044211215682	10 ST



Seal, Mounting type: Plug in, Length x width: 20.3 mm, Max. cable diameter: 6 mm, IP 66, Colour: Grey

Article number	Article name	GTIN (EAN)	Packaging unit
<u>28596.6</u>	KDS-DE 2X5-6 GR	4044211215699	10 ST



Seal, Mounting type: Plug in, Length x width: 20.3 mm, Max. cable diameter: 3 mm, IP 66, Colour: Grey

Article number	Article name	GTIN (EAN)	Packaging unit
<u>28597.6</u>	KDS-DE 4X2-3 GR	4044211215705	10 ST



Seal, Mounting type: Plug in, Length x width: 20.3 mm, Max. cable diameter: 4 mm, IP 66, Colour: Grey

Article number	Article name	GTIN (EAN)	Packaging unit
<u>28598.6</u>	KDS-DE 4X3-4 GR	4044211215712	10 ST



Seal, Mounting type: Plug in, Length x width: 20.3 mm, IP 66, Colour: Grey

Article number	Article name	GTIN (EAN)	Packaging unit
<u>28599.6</u>	KDS-DE/1XASI GR	4044211215729	10 ST



Seal, Mounting type: Plug in, Length x width: 20.3 mm, IP 66, Colour: Black

Article number	Article name	GTIN (EAN)	Packaging unit
<u>28560.4</u>	KDS-DE/2XASI BK	4044211215675	10 ST

## 28770.4 KDS-R 20-32 BK

### Small Seals



Seal dummy, Mounting type: Plug in, Length x width: 20.3 mm, IP 66, Colour: Grey

Article number	Article name	GTIN (EAN)	Packaging unit
<u>28561.6</u>	KDS-DE/B GR	4044211211004	10 ST



Seal, Mounting type: Plug in, Length x width: 20.3 mm, Max. cable diameter: 2 mm, IP 66, Colour: Grey

Article number	Article name	GTIN (EAN)	Packaging unit
<u>28562.6</u>	KDS-DE 1,5-2 GR	4044211209988	10 ST



Seal, Mounting type: Plug in, Length x width: 20.3 mm, Max. cable diameter: 6.5 mm, IP 66, Colour: Black

Article number	Article name	GTIN (EAN)	Packaging unit
<u>28682.4</u>	KDS-DE 2X6,5 BK	4044211219536	10 ST



Seal, Mounting type: Plug in, Length x width: 20.3 mm, IP 66, Colour: Grey

Article number	Article name	GTIN (EAN)	Packaging unit
<u>28600.6</u>	KDS-DE/2XASI GR	4044211215736	10 ST



Seal, Mounting type: Plug in, Length x width: 20.3 mm, Max. cable diameter: 4.5 mm, IP 66, Colour: Grey

Article number	Article name	GTIN (EAN)	Packaging unit
<u>28606.6</u>	KDS-DE 4X4,5 GR	4044211216252	10 ST



Seal, Mounting type: Plug in, Length x width: 20.3 mm, Max. cable diameter: 6.5 mm, IP 66, Colour: Grey

Article number	Article name	GTIN (EAN)	Packaging unit
<u>28607.6</u>	KDS-DE 2X6,5 GR	4044211216238	10 ST



## 28770.4 KDS-R 20-32 BK

### Small Seals



Seal, Mounting type: Plug in, Length x width: 20.3 mm, Max. cable diameter: 15 mm, IP 66, Colour: Black

Article number	Article name	GTIN (EAN)	Packaging unit
<u>28608.4</u>	KDS-DE 14-15 BK	4044211219314	10 ST



Seal, Mounting type: Plug in, Length x width: 20.3 mm, Max. cable diameter: 15 mm, IP 66, Colour: Grey

Article number	Article name	GTIN (EAN)	Packaging unit
<u>28609.6</u>	KDS-DE 14-15 GR	4044211219307	10 ST



Seal, Mounting type: Plug in, Length x width: 20.3 mm, Max. cable diameter: 16 mm, IP 66, Colour: Black

Article number	Article name	GTIN (EAN)	Packaging unit
<u>28670.4</u>	KDS-DE 15-16 BK	4044211219321	10 ST



Seal, Mounting type: Plug in, Length x width: 20.3 mm, Max. cable diameter: 17 mm, IP 66, Colour: Grey

Article number	Article name	GTIN (EAN)	Packaging unit
<u>28671.6</u>	KDS-DE 15-16 GR	4044211219338	10 ST



Seal, Mounting type: Plug in, Length x width: 20.3 mm, Max. cable diameter: 5 mm, IP 66, Colour: Black

Article number	Article name	GTIN (EAN)	Packaging unit
<u>28672.4</u>	KDS-DE 4X5 BK	4044211219345	10 ST



Seal, Mounting type: Plug in, Length x width: 20.3 mm, Max. cable diameter: 5 mm, IP 66, Colour: Grey

Article number	Article name	GTIN (EAN)	Packaging unit
<u>28673.6</u>	KDS-DE 4X5 GR	4044211219352	10 ST

## 28770.4 KDS-R 20-32 BK

### Small Seals



Seal, Mounting type: Plug in, Length x width: 20.3 mm, Max. cable diameter: 4.5 mm, IP 66, Colour: Black

Article number	Article name	GTIN (EAN)	Packaging unit
<u>28681.4</u>	KDS-DE 4X4,5 BK	4044211219543	10 ST



Seal, Mounting type: Plug in, Length x width: 20.3 mm, Max. cable diameter: 11 mm, IP 66, Colour: Black

Article number	Article name	GTIN (EAN)	Packaging unit
<u>28530.4</u>	KDS-DE 10-11 BK	4044211210960	10 ST



Seal, Mounting type: Plug in, Length x width: 20.3 mm, Max. cable diameter: 12 mm, IP 66, Colour: Black

Article number	Article name	GTIN (EAN)	Packaging unit
<u>28531.4</u>	KDS-DE 11-12 BK	4044211210977	10 ST



Seal, Mounting type: Plug in, Length x width: 20.3 mm, Max. cable diameter: 13 mm, IP 66, Colour: Black

Article number	Article name	GTIN (EAN)	Packaging unit
<u>28532.4</u>	KDS-DE 12-13 BK	4044211210984	10 ST



Seal, Mounting type: Plug in, Length x width: 20.3 mm, Max. cable diameter: 14 mm, IP 66, Colour: Black

Article number	Article name	GTIN (EAN)	Packaging unit
<u>28533.4</u>	KDS-DE 13-14 BK	4044211210991	10 ST



Seal, Mounting type: Plug in, Length x width: 20.3 mm, Max. cable diameter: 11 mm, IP 66, Colour: Black

Article number	Article name	GTIN (EAN)	Packaging unit
<u>28553.4</u>	KDS-DE/K 2-11 BK	4044211216092	10 ST

## 28770.4 KDS-R 20-32 BK

### Small Seals



Seal, Mounting type: Plug in, Length x width: 20.3 mm, Max. cable diameter: 5 mm, IP 66, Colour: Black

Article number	Article name	GTIN (EAN)	Packaging unit
<u>28555.4</u>	KDS-DE 2X4-5 BK	4044211215620	10 ST



Seal, Mounting type: Plug in, Length x width: 20.3 mm, Max. cable diameter: 6 mm, IP 66, Colour: Black

Article number	Article name	GTIN (EAN)	Packaging unit
<u>28556.4</u>	KDS-DE 2X5-6 BK	4044211215637	10 ST



Seal, Mounting type: Plug in, Length x width: 20.3 mm, Max. cable diameter: 3 mm, IP 66, Colour: Black

Article number	Article name	GTIN (EAN)	Packaging unit
<u>28557.4</u>	KDS-DE 4X2-3 BK	4044211215644	10 ST



Seal, Mounting type: Plug in, Length x width: 20.3 mm, Max. cable diameter: 4 mm, IP 66, Colour: Black

Article number	Article name	GTIN (EAN)	Packaging unit
<u>28558.4</u>	KDS-DE 4X3-4 BK	4044211215651	10 ST



Seal, Mounting type: Plug in, Length x width: 20.3 mm, IP 66, Colour: Black

Article number	Article name	GTIN (EAN)	Packaging unit
<u>28559.4</u>	KDS-DE/1XASI BK	4044211215668	10 ST



Seal dummy, Mounting type: Plug in, Length x width: 20.3 mm, IP 66, Colour: Black

Article number	Article name	GTIN (EAN)	Packaging unit
<u>28520.4</u>	KDS-DE/B BK	4044211210878	10 ST

## 28770.4 KDS-R 20-32 BK

### Small Seals



Seal, Mounting type: Plug in, Length x width: 20.3 mm, Max. cable diameter: 2 mm, IP66, Colour: Black

Article number	Article name	GTIN (EAN)	Packaging unit
<u>28521.4</u>	KDS-DE 1,5-2 BK	4044211210007	10 ST



Seal, Mounting type: Plug in, Length x width: 20.3 mm, Max. cable diameter: 3 mm, IP66, Colour: Black

Article number	Article name	GTIN (EAN)	Packaging unit
<u>28522.4</u>	KDS-DE 2-3 BK	4044211210885	10 ST



Seal, Mounting type: Plug in, Length x width: 20.3 mm, Max. cable diameter: 4 mm, IP66, Colour: Black

Article number	Article name	GTIN (EAN)	Packaging unit
<u>28523.4</u>	KDS-DE 3-4 BK	4044211210892	10 ST



Seal, Mounting type: Plug in, Length x width: 20.3 mm, Max. cable diameter: 5 mm, IP66, Colour: Black

Article number	Article name	GTIN (EAN)	Packaging unit
<u>28524.4</u>	KDS-DE 4-5 BK	4044211210908	10 ST



Seal, Mounting type: Plug in, Length x width: 20.3 mm, Max. cable diameter: 6 mm, IP66, Colour: Black

Article number	Article name	GTIN (EAN)	Packaging unit
<u>28525.4</u>	KDS-DE 5-6 BK	4044211210915	10 ST



Seal, Mounting type: Plug in, Length x width: 20.3 mm, Max. cable diameter: 7 mm, IP66, Colour: Black

Article number	Article name	GTIN (EAN)	Packaging unit
<u>28526.4</u>	KDS-DE 6-7 BK	4044211210922	10 ST

## 28770.4 KDS-R 20-32 BK

### Small Seals



Seal, Mounting type: Plug in, Length x width: 20.3 mm, Max. cable diameter: 8 mm, IP 66, Colour: Black

Article number	Article name	GTIN (EAN)	Packaging unit
<u>28527.4</u>	KDS-DE 7-8 BK	4044211210939	10 ST



Seal, Mounting type: Plug in, Length x width: 20.3 mm, Max. cable diameter: 9 mm, IP 66, Colour: Black

Article number	Article name	GTIN (EAN)	Packaging unit
<u>28528.4</u>	KDS-DE 8-9 BK	4044211210946	10 ST



Seal, Mounting type: Plug in, Length x width: 20.3 mm, Max. cable diameter: 10 mm, IP 66, Colour: Black

Article number	Article name	GTIN (EAN)	Packaging unit
<u>28529.4</u>	KDS-DE 9-10 BK	4044211210953	10 ST

### Actuating tool



Using the KDS BW1 actuating tool, the seals can be conveniently mounted in and dismantled from the frame. The ergonomic grip and the special shape enable simple and precise installations, especially for cabling applications in confined spaces., Material: Polyamide

Article number	Article name	GTIN (EAN)	Packaging unit
<u>28622.0</u>	KDS BW 1	4044211216597	1 ST

### Locknut



Hex. nut, Thread type: metric, Thread size: 20 mm, Material: Polyamide, Colour: Light grey

Article number	Article name	GTIN (EAN)	Packaging unit
<u>4142.2</u>	S/M 20x1,5 GR	4044211114237	100

## 28770.4 KDS-R 20-32 BK

### Locknut



Hex. nut, Thread type: metric, Thread size: 25 mm, Material: Polyamide, Colour: Light grey

Article number	Article name	GTIN (EAN)	Packaging unit
<u>4143.2</u>	S/M 25x1,5 GR	4044211114244	100



Hex. nut, Thread type: metric, Thread size: 32 mm, Material: Polyamide, Colour: Light grey

Article number	Article name	GTIN (EAN)	Packaging unit
<u>4144.2</u>	S/M 32x1,5 GR	4044211114251	100

### Locknuts



Hex. nut, Thread type: metric, Thread size: 20 mm, Material: Polyamide, Colour: Light grey

Article number	Article name	GTIN (EAN)	Packaging unit
<u>4142.2</u>	S/M 20x1,5 GR	4044211114237	100



Hex. nut, Thread type: metric, Thread size: 25 mm, Material: Polyamide, Colour: Light grey

Article number	Article name	GTIN (EAN)	Packaging unit
<u>4143.2</u>	S/M 25x1,5 GR	4044211114244	100



Hex. nut, Thread type: metric, Thread size: 32 mm, Material: Polyamide, Colour: Light grey

Article number	Article name	GTIN (EAN)	Packaging unit
<u>4144.2</u>	S/M 32x1,5 GR	4044211114251	100

### Sheet-metal puncher

## 28770.4 KDS-R 20-32 BK



Article number	Article name	GTIN (EAN)	Packaging unit
<u>28754.0</u>	BL-VA KDS-KV M20	4044211222062	1 ST



Sheet metal punch for round cutouts, Cutout diameter: 32.5 mm, Maximum wall thickness: 2.0 mm for S 235 sheet metal, Material: steel

Article number	Article name	GTIN (EAN)	Packaging unit
<u>28748.0</u>	BL KDS-KV M32	4044211222017	1 ST

Article number	Article name	GTIN (EAN)	Packaging unit
<u>28755.0</u>	BL-VA KDS-KV M25	4044211234454	1 ST



Sheet metal punch for round cutouts, Cutout diameter: 20.4 mm, Maximum wall thickness: 2.0 mm for S 235 sheet metal, Material: steel

Article number	Article name	GTIN (EAN)	Packaging unit
<u>28746.0</u>	BL KDS-KV M20	4044211221997	1 ST



Sheet metal punch for round cutouts, Cutout diameter: 25.4 mm, Maximum wall thickness: 2.0 mm for S 235 sheet metal, Material: steel

Article number	Article name	GTIN (EAN)	Packaging unit
<u>28747.0</u>	BL KDS-KV M25	4044211222000	1 ST

Article number	Article name	GTIN (EAN)	Packaging unit
<u>28756.0</u>	BL-VA KDS-KV M32	4044211234461	1 ST

## 28770.4 KDS-R 20-32 BK

Sheet metal punch set for round cutouts, includes hydraulic hand pump, 7 X sheet metal punchers VA (M16, M20, M25, M32, M40, M50, M63), 2x pull axles, lock nut, plasticcase, maximum wall thickness: 2.0 mm for stainless steel sheet, material: steel

Article number	Article name	GTIN (EAN)	Packaging unit
<u>28765.0</u>	BL-VA SET M16-M63	4044211222383	1 ST

Sheet metal punch set for round cutouts, includes hydraulic hand pump, 7 X sheet metal punches (M16, M20, M25, M32, M40, M50, M63), 2x tension axles, lock nut, plastic case, maximum wall thickness: 2.0 mm for S 235 sheet metal, material: steel

Article number	Article name	GTIN (EAN)	Packaging unit
<u>28766.0</u>	BL SET M16-M63	4044211222390	1 ST