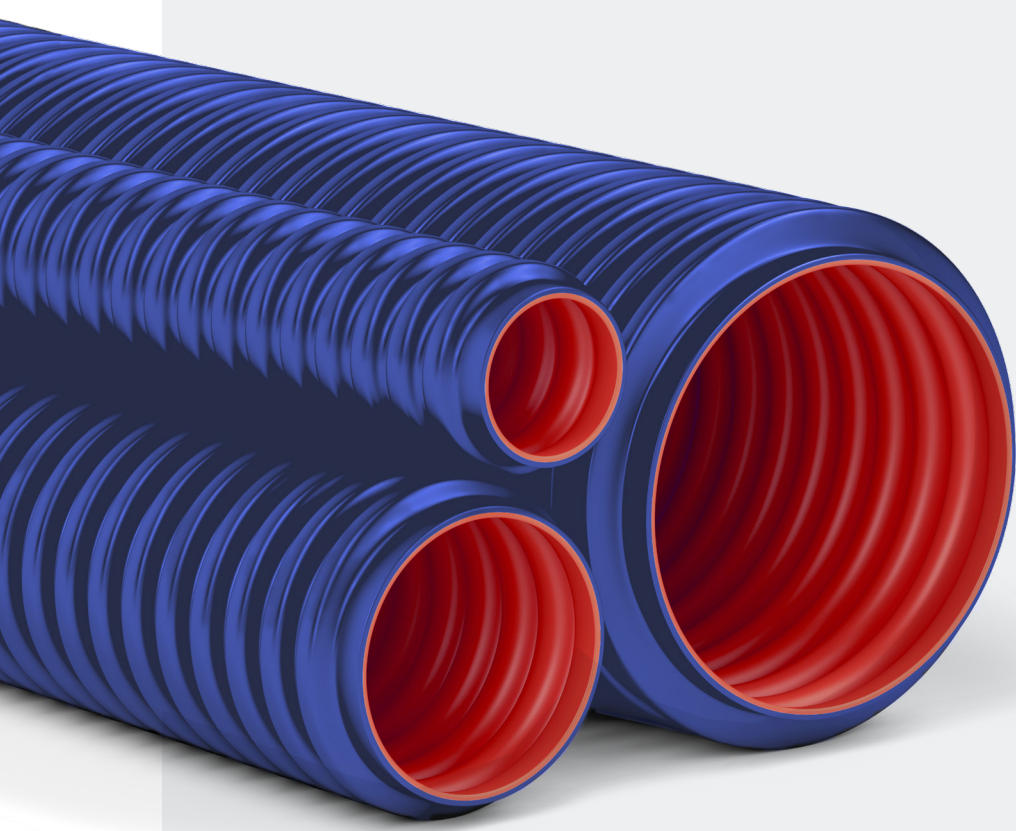


# Multilayer corrugated tube S-Type

Innovative cable protection for robotics  
and automation applications

New



High torsional and yield  
strength



High tear propagation strength



Increased abrasion  
resistance



Free of halogens and  
cadmium/acc. to DIN 53474



High durability



High dynamic resilience

## ☰ Material characteristics

**Multilayer corrugated tube** Top, middle and inner layer made of high-quality, specifically formulated polyamide 12

**Color / Layer**  
 Top layer (protection layer) - **blue**  
 Middle layer (warning layer) - **yellow**  
 Inner layer (max. wear layer) - **red**  
 NW29 only available in black

## 🔧 Characteristics

Category	Unit	Value
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### ⚙️ Mechanical characteristics

#### Impact resistance

[+23 °C]	Joule	>3
[-18°C]	Joule	>12.2

<b>Compression strength</b>	Newton	>130 (50x50 mm)
	Newton	>260 (100x100 mm)

<b>Bending fatigue strength</b>	Cycles	>4.000.000
	Cycles	>10.000.000

### 🔥 Thermal characteristics

<b>Continuous operating temperature</b>	°C	-40°C ... + 95°C
<b>Short term</b>	°C	+150°C

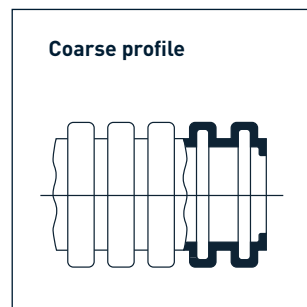
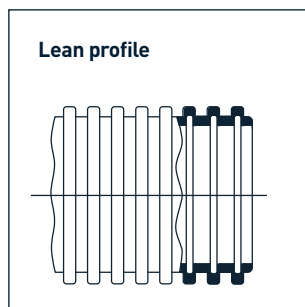
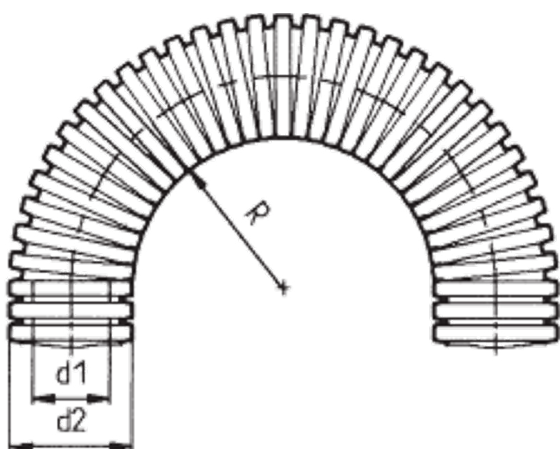
### ☀️ Environmental characteristics

<b>RoHS- and REACH-conform</b>	Yes
<b>Free of halogens acc. to DIN 53474</b>	Yes
<b>Free from paint wetting impairment substances (e.g. silicone)</b>	Yes

## ⚙️ Index



## Dimensions



Article name	Article number	Tube diameter (I.D.)	Suitable system holders*	Dimensions mm (nom.)			
				d1	d2	stat. R.	Dyn. R.
S-Type NW 29 black	90.003.000.004.012	29	SH 45SC	29.1	34.3	50	120
S-Type NW 36 blue	91.223.050.036.002	36	SH 70SC	36.8	42.2	60	180
S-Type NW 48 blue	91.223.050.048.002	48	SH 70SC	47.3	54.2	70	200
S-Type NW 70 blue	91.223.050.070.003	70	SH 90SC / SH 110SC	67.4	79.8	150	350

**stat. R.** smallest recommended bending radius for static (fixed) installation

**dyn. R.** smallest recommended bending radius for dynamic (flexible) installation

## Further equipment

### \* System holders SH line

### Foldable and pivotable mechanism

The folding and pivoting mechanism of the system holder is unique. The upper semi-shell of the system holder can be folded to the side or completely removed after loosening the fastening elements. This allows a more flexible and particularly maintenance-friendly installation without interfering contours. After mounting, the system holder is fixed with screws on both sides, ensuring a permanently secure and stable support.



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