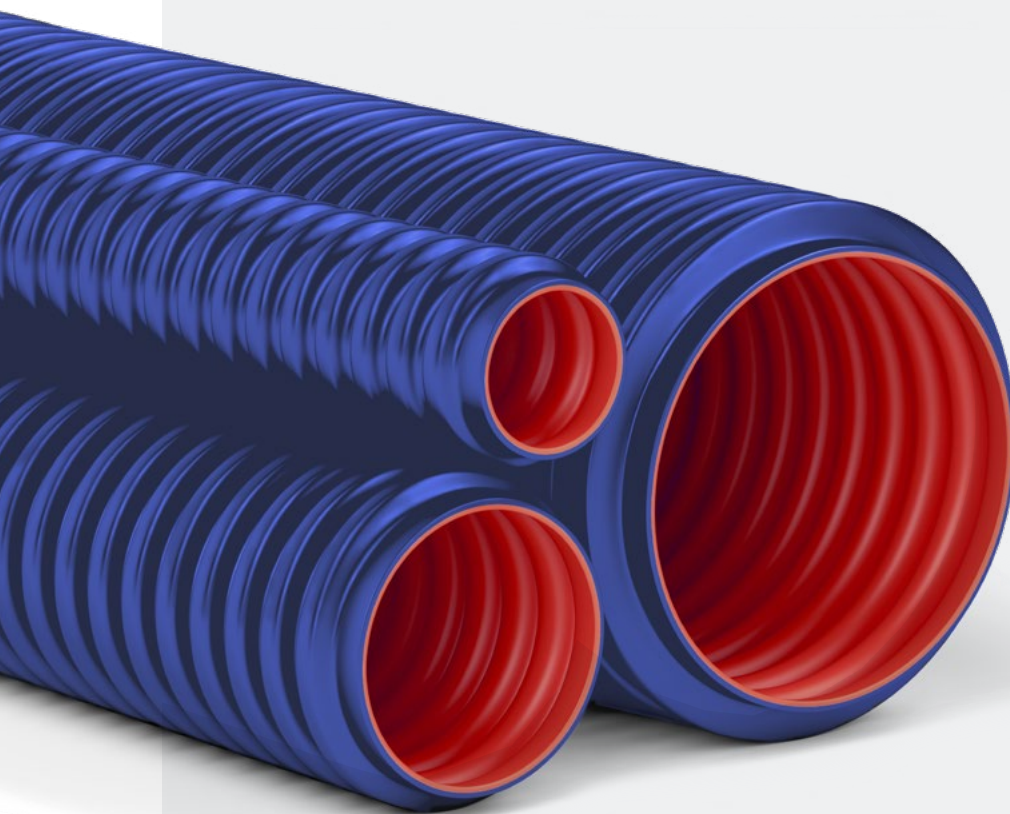


# Multilayer corrugated tube S-Type

Innovative cable protection for robotics  
and automation applications

New



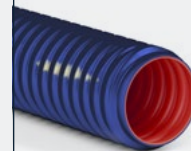
## Blue

Protection layer -  
corrugated tube intact



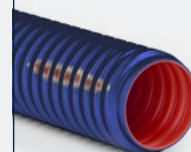
## Yellow

Warning layer - maintenance  
planning of the corrugated tube



## Red

Max. wear layer - urgent  
maintenance of corrugated tube



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

- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

### Multilayer corrugated tube

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



Category	Unit	Value
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### Impact resistance

(+23 °C)	Joule	>3
(-18°C)	Joule	>12.2
Compression strength	Newton	>130 (50x50 mm)
	Newton	>260 (100x100 mm)
Bending fatigue strength	Cycles	>4.000.000
	Cycles	>10.000.000



Continuous operating temperature	°C	-40°C ... + 95°C
Short term	°C	+150°C

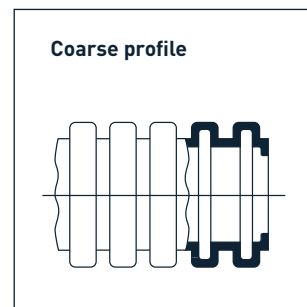
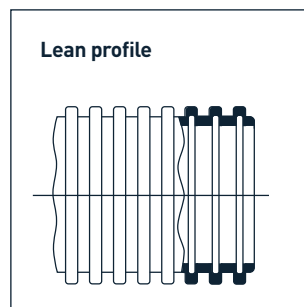
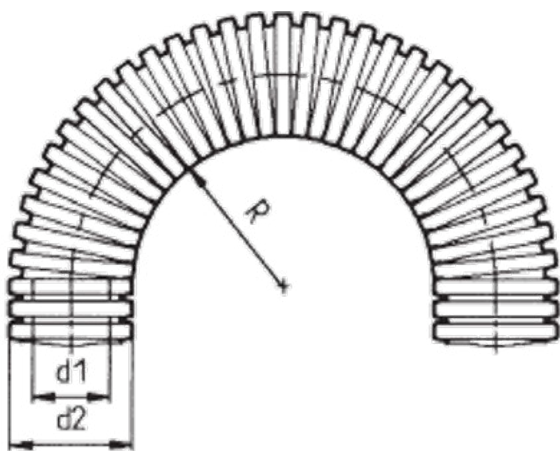


RoHS- and REACH-conform	Yes
Free of halogens acc. to DIN 53474	Yes
Free from paint wetting impairment substances (e.g. silicone)	Yes



	Min.			Max.
Ductility				
Fatigue / Reverse bending				
Pressure resistance				
Cold temperature performance				
Weather resistance				

## 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 45C	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. Thus, ensuring a permanently secure and stable support.



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