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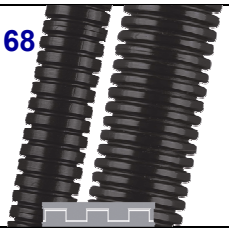
Technical Data Sheet



Flexible heavy conduit

ROHRflex® PA 12-SD

Nr.: 0243. ...

Revision B5
Nov 2017

Description

Material Plastic (PA)
Color Black
Temperature range
-50°C up to + 100°C ^....+ 130°C

Construction
Corrugated all-plastic tubing, internally and externally corrugated

Properties
- high alternate bending strength
- high cross pressure strength
- air- and liquid-tight
- oil and benzine resistant
- widely resistant to acid and solvents
- free of silicone, cadmium, halogen
- highly self-extinguishing
- flame retardant
- UV-resistant

Applications

This thick-walled conduit is made especially for heavy applications with high mechanical stresses.
- Insulated electrical installations for application rules machine and plant constructions acc. to DIN EN 60204
- Especially for frequent reversed bending, e.g. for robotics
- For static and dynamic applications of railway cars **[especially for outside applications]**

Characteristics

Characteristics	Unit	Value	Test
Mechanical characteristics			
Resistance to compression*	N	320	EN 61386-23
Resistance to impact*	J	4	EN 61386-23
Resistance to bending*	Flexible		EN 61386-23
Reversed bending stresses		> 1,000,000	
Thermal characteristics			
Temperature range	°C	-50 ..+ 100	
Short-term	°C	130°	
Flame characteristics			
Free of halogen and phosphor		Yes	DIN 53474
Resistace to flame propagation*	non flame propagting		EN 61386-23
Light emitting filament check	°C	850	EN 60695-2-1/0
Chemical characteristics			
Resistance to fuels, mineral oils, fats, alkalises, acids and bases		excellent	
System test			
Pull-out resistance with FLEXAquick*	N	100	EN 61386-23

* Classification for flexible conduit systems for electrical installation DIN EN IEC 61386-23 (Details are based upon dimension OD 21.2)

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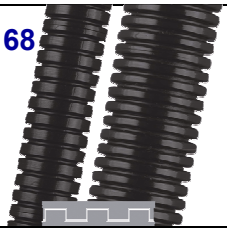
IP 68



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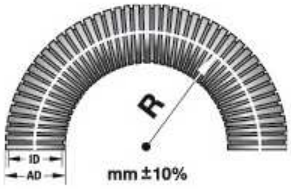
Dimensions

Fine profile

Coarse profile



Smallest bending radius
stat. > static (fixed)
dyn. > dynamic

Part No.	AD OD					
Color: Black	**ø**	**mm**	**stat**	**dyn**	**kg/m**	**m**
Fine Profile						
0243.202.006	10,0	6,0 x 10,0	15	35	0,023	50
0243.202.010	13,0	9,5 x 13,0	25	45	0,032	50
0243.202.012	15,8	11,5 x 15,8	35	55	0,039	50
0243.202.016	21,2	16,0 x 21,2	50	85	0,073	50
Coarse Profile						
0243.232.016	21,2	15,0 x 21,2	50	112	0,079	50
0243.232.023	28,5	21,5 x 28,5	60	120	0,120	50
0243.232.029	34,5	27,0 x 34,5	70	140	0,168	25
0243.232.036	42,5	35,0 x 42,5	80	170	0,190	25
0243.232.048	54,5	46,5 x 54,5	100	190	0,240	25

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