



Metallic conduits with plastic coating

• PCS Galvanised Steel Conduit, PVC Coating

Flexible galvanised steel conduit with PVC coating.

Features and Benefits

- High compression strength
- High tensile strength
- High impact strength
- Highly flexible
- Good resistance to alkalis and acids
- Good resistance to chemicals
- Colour: black; grey on request

Application

Machines and plants.



HelaGuard PCS Galvanised Steel Conduit with PVC Coating.

Material Data	
Material	Galvanised Steel (GS), Polyvinylchloride (PVC)
Operating Temperature	-15 °C to +70 °C



HelaGuard PCS Galvanised Steel Conduit with PVC Coating, 10 m in grey.

Technical Table

Article-No.	Type	Nominal Ø	Outside Ø	Inside Ø	Bending Radius	Weight (g/m)	Reel Length (m)	Colour
PCS Standard lengths								
166-30700	PCS10	10	10.0	6.8	25	140	50	Black (BK)
166-30701	PCS12	12	14.0	10.2	30	143	50	Black (BK)
166-30702	PCS16	16	17	13.0	40	196	25	Black (BK)
166-30703	PCS20	20	21.5	16.9	45	345	25	Black (BK)
166-30704	PCS25	25	26.0	21.1	55	411	25	Black (BK)
166-30705	PCS32	32	34.0	28.1	70	560	25	Black (BK)
166-30706	PCS40	40	44.5	37.6	80	719	25	Black (BK)
166-30707	PCS50	50	55.0	48.4	90	1052	25	Black (BK)
166-30708	PCS63	63	64.5	57.5	115	1091	10	Black (BK)
166-30709	PCS75	75	79.0	70.0	150	1459	10	Black (BK)
PCS 10m lengths								
166-30722	PCS10	10	10.0	6.8	25	140	10	Grey (GY)
166-30723	PCS12	12	14.0	10.2	30	143	10	Grey (GY)
166-30724	PCS16	16	17.0	13.0	40	196	10	Grey (GY)
166-30725	PCS20	20	21.5	16.9	45	345	10	Grey (GY)
166-30726	PCS25	25	26.0	21.1	55	411	10	Grey (GY)
166-30727	PCS32	32	34.0	28.1	70	560	10	Grey (GY)
166-30728	PCS40	40	44.5	37.6	80	719	10	Grey (GY)
166-30729	PCS50	50	55.0	48.4	90	1052	10	Grey (GY)

All dimensions in mm. Subject to technical changes.

Other reel length available on request.



Metallic conduits with plastic coating

• NCS Galvanised Steel Conduit, PA6 Coating

Flexible galvanised steel conduit with PA6 coating.

Features and Benefits

- High temperature resistance
- High compression strength
- High tensile strength
- High impact strength
- Highly flexible
- Highly resistance to acids and solvents
- Colour: black

Application

Demanding applications requiring higher temperatures and high resistance to acids and solvents.



The HelaGuard NCS galvanised steel conduit with a PA6 coating for higher temperatures and high resistance to acids and solvents.

Material Data

Material	Galvanised Steel (GS), Polyamide 6.6 (PA66)
Operating Temperature	-40 °C to +120 °C



Technical Table

Article-No.	Type	Nominal Ø	Outside Ø	Inside Ø	Bending Radius	Weight (g/m)	Reel Length (m)	Colour
166-30801	NCS16	16	17.0	13.0	40	174	25	Black (BK)
166-30802	NCS20	20	21.5	16.9	45	345	25	Black (BK)
166-30803	NCS25	25	26.0	21.1	55	411	25	Black (BK)
166-30800	NCS32	32	34.0	28.1	70	510	10	Black (BK)

All dimensions in mm. Subject to technical changes.

Other reel length available on request.



Metallic conduits with plastic coating

• LFHCS Galvanised Steel Conduit, LFH Coating

Flexible galvanised steel conduit with highly flame resistant, low smoke and low toxicity coating.

Features and Benefits

- Highly flame resistant (UL94 V0)
- Low smoke, low toxicity
- High compression strength
- High tensile strength
- High impact strength
- Highly flexible
- Halogen, sulphur and phosphorus free
- Colour: black



Application

Rail industry, underground stations, tunnels, public buildings, wherever high fire protection is required.



HelaGuard LFHCS galvanised steel conduit is low smoke, low toxicity, highly flame retardant and halogen free.

Material Data	
Material	Galvanised Steel (GS), Polyolefin (PO)
Operating Temperature	-25 °C to +90 °C

Technical Table

Article-No.	Type	Nominal Ø	Outside Ø	Inside Ø	Bending Radius	Weight (g/m)	Reel Length (m)	Colour
166-30900	LFHCS12	12	14	10.2	30	199	25	Black (BK)
166-30901	LFHCS16	16	17	13.0	40	216	25	Black (BK)
166-30902	LFHCS20	20	21.5	16.9	45	350	25	Black (BK)
166-30903	LFHCS25	25	26.0	21.1	55	420	25	Black (BK)
166-30904	LFHCS32	32	34.0	28.1	70	571	25	Black (BK)
166-30905	LFHCS40	40	44.5	37.6	80	739	10	Black (BK)
166-30906	LFHCS50	50	55.0	48.4	90	1077	10	Black (BK)
166-30907	LFHCS63	63	64.5	57.5	115	1126	10	Black (BK)
166-30908	LFHCS75	75	79.0	70.0	150	1509	10	Black (BK)

All dimensions in mm. Subject to technical changes.

Other reel length available on request.

HelaGuard Metallic Conduits with Plastic Coating and Fittings



Fittings for metallic conduits with plastic coating

• PCS-FM Fixed External Thread, IP54

Fixed external thread, nickel plated brass.

Features and Benefits

- Two part fitting comprising shell and body with external thread
- Can be secured with a locknut



Helaguard PCS-FM Fixed External Thread.



Technical Table

Article-No.	Type	Nominal Ø	Thread Size (metric)	Thread Size (PG)	Pack Cont.
166-31000	PCS10-FM-M12	10	M12	–	10
166-31010	PCS10-FM-PG7	10	–	PG7	10
166-31001	PCS12-FM-M16	12	M16	–	10
166-31013	PCS12-FM-PG7	20	–	PG7	10
166-31011	PCS12-FM-PG9	12	–	PG9	10
166-31002	PCS16-FM-M16	16	M16	–	10
166-31003	PCS16-FM-M20	16	M20	–	10
166-31012	PCS16-FM-PG11	16	–	PG11	10
166-31004	PCS20-FM-M20	20	M20	–	10
166-31014	PCS20-FM-PG16	20	–	PG16	10
166-31005	PCS25-FM-M25	25	M25	–	10
166-31015	PCS25-FM-PG21	25	–	PG21	10
166-31006	PCS32-FM-M32	32	M32	–	2
166-31016	PCS32-FM-PG29	32	–	PG29	2
166-31007	PCS40-FM-M40	40	M40	–	2
166-31017	PCS40-FM-PG36	40	–	PG36	2
166-31008	PCS50-FM-M50	50	M50	–	1
166-31018	PCS50-FM-PG48	50	–	PG48	1
166-31009	PCS63-FM-M63	63	M63	–	1
166-31019	PCS75-FM-M75	75	M75	–	1

All dimensions in mm. Subject to technical changes.

Material Data

Material	Nickel Plated Brass (NPB)
Colour	Metal (ML)
Operating Temperature	-100 °C to +300 °C

• PCS-SM Swivel External Thread, IP54

Swivel external thread, nickel plated brass.

Features and Benefits

- Two part fitting comprising shell and body
- The external thread swivels about the main body
- Can be secured with a locknut



Helaguard PCS-SM Swivel External Thread.

Technical Table

Article-No.	Type	Nominal Ø	Thread Size (metric)	Thread Size (PG)	Pack Cont.
166-31100	PCS10-SM-M12	10	M12	–	10
166-31110	PCS10-SM-PG7	10	–	PG7	10
166-31101	PCS12-SM-M16	12	M16	–	10
166-31111	PCS12-SM-PG9	12	–	PG9	10
166-31102	PCS16-SM-M16	16	M16	–	10
166-31103	PCS16-SM-M20	16	M20	–	10
166-31112	PCS16-SM-PG11	16	–	PG11	10
166-31104	PCS20-SM-M20	20	M20	–	10
166-31113	PCS20-SM-PG13	20	–	PG13.5	10
166-31114	PCS20-SM-PG16	20	–	PG16	10
166-31105	PCS25-SM-M25	25	M25	–	10
166-31115	PCS25-SM-PG21	25	–	PG21	10
166-31106	PCS32-SM-M32	32	M32	–	2
166-31116	PCS32-SM-PG29	32	–	PG29	2
166-31107	PCS40-SM-M40	40	M40	–	2
166-31117	PCS40-SM-PG36	40	–	PG36	2
166-31108	PCS50-SM-M50	50	M50	–	1
166-31118	PCS50-SM-PG42	50	–	PG42	1
166-31109	PCS63-SM-M63	63	M63	–	1

All dimensions in mm. Subject to technical changes.



Fittings for metallic conduits with plastic coating

• PCS-PC Plain Hole Connector, IP54

Plain hole connector, nickel plated brass.

Features and Benefits

- Two part fitting comprising shell and body without thread
- The body is fitted to the conduit through the opposite side of the entry
- Acts as a locking device
- Provides a smooth entry bush



HelaGuard PCS-PC Plain Hole Connector.

Technical Table

Article-No.	Type	Nominal Ø	Pack Cont.
166-31200	PCS10-PC	10	10
166-31201	PCS12-PC	12	10
166-31202	PCS16-PC	16	10
166-31203	PCS20-PC	20	10
166-31204	PCS25-PC	25	10
166-31205	PCS32-PC	32	2
166-31206	PCS40-PC	40	2
166-31207	PCS50-PC	50	1
166-31208	PCS63-PC	63	1
166-31209	PCS75-PC	75	1

All dimensions in mm. Subject to technical changes.

Material Data

Material	Nickel Plated Brass (NPB)
Colour	Metal (ML)
Operating Temperature	-100 °C to +300 °C



• PCS-FF Fixed Internal Thread, IP54

Fixed internal thread, nickel plated brass.

Features and Benefits

- Two part fitting comprising shell and body with internal thread
- Can be used to couple two pieces of conduit together when used with a swivel fitting



HelaGuard PCS-FF Fixed Internal Thread.

Technical Table

Article-No.	Type	Nominal Ø	Thread Size (metric)	Pack Cont.
166-31300	PCS16-FF-M20	16	M20	10
166-31301	PCS20-FF-M20	20	M20	10
166-31302	PCS25-FF-M25	25	M25	10
166-31303	PCS32-FF-M32	32	M32	10

All dimensions in mm. Subject to technical changes.



Fittings for metallic conduits with plastic coating

• PCS-FMC Fixed Thread Compression Fitting, IP65

External thread, nickel plated brass.
Fulfils IP65.

Features and Benefits

- Multipart compression fitting including elastomeric seal
- Can be used for knockouts or threaded entries as the fitting rotates until tightened



Helaguard PCS-FMC Compression Fitting.

Technical Table

Article-No.	Type	Nominal Ø	Thread Size (metric)	Thread Size (PG)	Pack Cont.
166-31400	PCS10-FMC-M12	10	M12	–	10
166-31401	PCS12-FMC-M16	12	M16	–	10
166-31402	PCS16-FMC-M16	16	M16	–	10
166-31409	PCS16-FMC-PG11	16	–	PG11	10
166-31403	PCS16-FMC-M20	16	M20	–	10
166-31404	PCS20-FMC-M20	20	M20	–	10
166-31410	PCS20-FMC-PG16	20	–	PG16	10
166-31405	PCS25-FMC-M25	25	M25	–	10
166-31411	PCS25-FMC-PG21	25	–	PG21	10
166-31406	PCS32-FMC-M32	32	M32	–	2
166-31412	PCS32-FMC-PG29	32	–	PG29	2
166-31407	PCS40-FMC-M40	40	M40	–	2
166-31408	PCS50-FMC-M50	50	M50	–	1

All dimensions in mm. Subject to technical changes.

Material Data

Material	Nickel Plated Brass (NPB), Polyamide 6 (PA6)
Colour	Metal (ML)
Operating Temperature	-40 °C to +135 °C



• PCS-SMC Swivel Thread Compression Fitting, IP65

External thread, nickel plated brass.
Fulfils IP65.

Features and Benefits

- Multipart compression fitting including elastomeric seal
- The external thread swivels about the main body even after tightening



Helaguard PCS-SMC Swivel Compression Fitting.

Technical Table

Article-No.	Type	Nominal Ø	Thread Size (metric)	Pack Cont.
166-31500	PCS12-SMC-M16	12	M16	10
166-31501	PCS16-SMC-M16	16	M16	10
166-31502	PCS16-SMC-M20	16	M20	10
166-31503	PCS20-SMC-M20	20	M20	10
166-31504	PCS25-SMC-M25	25	M25	10
166-31505	PCS32-SMC-M32	32	M32	2

All dimensions in mm. Subject to technical changes.



Fittings for metallic conduits with plastic coating

- **PCS-90FMC 90° Elbow Compression Fitting, IP65**

External thread elbow, nickel plated brass. Fulfils IP65.

Features and Benefits

- Multipart 90° compression fitting including elastomeric seal



Helaguard PCS-90FMC 90 Elbow Compression Fitting.

Technical Table

Article-No.	Type	Nominal Ø	Thread Size (metric)	Pack Cont.
166-31600	PCS10-90FMC-M16	10	M16	10
166-31601	PCS12-90FMC-M16	12	M16	10
166-31602	PCS16-90FMC-M16	16	M16	10
166-31603	PCS16-90FMC-M20	16	M20	10
166-31604	PCS20-90FMC-M20	20	M20	10
166-31605	PCS25-90FMC-M25	25	M25	10
166-31606	PCS32-90FMC-M32	32	M32	2

All dimensions in mm. Subject to technical changes.

Material Data

Material	Nickel Plated Brass (NPB), Polyamide 6 (PA6)
Colour	Metal (ML)
Operating Temperature	-40 °C to +135 °C



- **PCS-PCS Compression Coupler, IP65**

Nickel plated brass. Fulfils IP65.

Features and Benefits

- Multipart compression coupler including polyamide seals.
- Joins two conduits



Helaguard PCS-PCS Compression Coupler.

Technical Table

Article-No.	Type	Nominal Ø	Pack Cont.
166-31700	PCS20-PCS20	20	10
166-31701	PCS25-PCS25	25	10

All dimensions in mm. Subject to technical changes.

Material Data

Material	Nickel Plated Brass (NPB), Polyamide 6 (PA6)
Colour	Metal (ML)
Operating Temperature	-40 °C to +135 °C



HelaGuard Metallic Conduits with Plastic Coating and Fittings



Fittings for metallic conduits with plastic coating

• PCS-SCG Straight Cable Gland fitting, IP65

External thread, nickel plated brass.
Fulfils IP65.

Features and Benefits

- Multipart compression fitting including elastomeric seal
- Strain relief
- Cable seal at IP68 and IP69k



PCS-SCG Compression Fitting with Strain Relief and Cable Seal.

Technical Table

Article-No.	Type	Nominal Ø	Thread Size (metric)	Suitable for Cable Ø from/to	Pack Cont.
166-36101	PCS16-SCG-M16	16	M16	4,5 - 10	10
166-36102	PCS20-SCG-M20	20	M20	7 - 13	10
166-36103	PCS25-SCG-M25	25	M25	9 - 17	10
166-36104	PCS32-SCG-M32	32	M32	11 - 21	2

All dimensions in mm. Subject to technical changes.

Material Data

Material	Polyamide 6.6 (PA66), Nickel Plated Brass (NPB), Thermoplastic Elastomer (TPE)
Colour	Metal (ML)
Operating Temperature	-40 °C to +135 °C



• PCS-EI End Insert

Nickel plated brass.

Features and Benefits

- Single part
- Caps end of conduit



HelaGuard PCS-EI End Insert.

Technical Table

Article-No.	Type	Nominal Ø	Pack Cont.
166-31800	PCS10-EI	10	10
166-31801	PCS12-EI	12	10
166-31802	PCS16-EI	16	10
166-31803	PCS20-EI	20	10
166-31804	PCS25-EI	25	10
166-31805	PCS32-EI	32	2
166-31806	PCS40-EI	40	2
166-31807	PCS50-EI	50	2

All dimensions in mm. Subject to technical changes.

Material Data

Material	Nickel Plated Brass (NPB)
Colour	Metal (ML)
Operating Temperature	-100 °C to +300 °C

