



ProBell™ Hose Bundles

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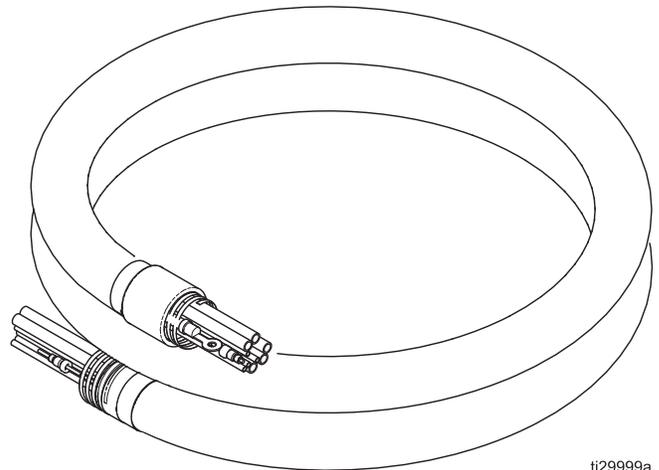
Hoses and cables for ProBell Applicators

See page 3 for available hose bundles.



Important Safety Instructions

Read all warnings and instructions in this manual and in those listed in **Related Manuals** on page 2, before using the equipment. Save all instructions.



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Related Manuals

Manual in English	Description
334626	ProBell Rotary Applicator, Hollow Wrist
334452	ProBell Rotary Applicator
3A4232	ProBell Cart Systems
3A3657	ProBell Electrostatic Controller
3A3953	ProBell Speed Controller
3A3954	ProBell Air Controllers
3A3955	ProBell System Logic Controller

Hose Bundles for Electrostatic Systems

Part Number	Air Lines (9x)	Grounding Cable	Power Supply Cable	Fiber Optic Cable	Solventborne Fluid Lines (3x)	Length		
						11 m	20 m	30 m
24Z168	x	x	x	x	x	x		
24Z160	x	x	x	x	x		x	
24Z170	x	x	x	x	x			x
24Z711	x	x	x	x		x		
24Z712	x	x	x	x			x	
24Z713	x	x	x	x				x

Hose Bundles for Non-Electrostatic Systems

Part Number	Air Lines (9x)	Grounding Cable	Power Supply Cable	Fiber Optic Cable	Fluid Lines (3x)	Length		
						11 m	20 m	30 m
25T743	x	x		x	x	x		
25T744	x	x		x	x		x	
25T745	x	x		x	x			x
25T746	x	x		x		x		
25T747	x	x		x			x	
25T748	x	x		x				x

General Information

Each hose bundle comes with 9 air lines, a fiber optic cable, power supply cable (ES bundles), and grounding cable. Solventborne bundles come with an additional 3 fluid lines.

All hoses and cables are held with spiral wrap at the applicator and controller ends of the bundle. To adjust the hose bundle for installation, remove the two spiral wraps to free the three fluid lines (24Z168, 24Z169, 24Z170, 24T743, 24T744, 24T745 models only) and grounding cable.

Once all lines are adjusted, install spiral wrap back on hose bundle. Additional spiral wraps can be purchased in kit 24Z662 (bag of 10).

Waterborne Information

Waterborne hose bundles for electrostatic applications can be created by purchasing hose bundle 24Z711, 24Z712, or 24Z713 along with 2 waterborne fluid hoses, one for paint and one for dump/recirculation. See **Other Accessories** for more information.

Remove the blue hose bundle cover to install the fluid hoses and secure with spiral wrap after connecting all lines to applicator. Complete assembly by re-installing protective blue cover over all lines before spraying.

For non-electrostatic applications, the standard fluid hoses for solventborne systems can be used.

Installation

Hollow Wrist Applicator Models (RxA2xx)

All hose bundles come ready to connect to Hollow Wrist applicators.

The hollow wrist fiber optic cable measures 1.480" ± .005" (37.6 ± 0.12 mm) (See FIG. 1). The hex nut may be used for fine adjustments to reach the target length. To add length, turn nut clockwise.

To connect the hose bundle, see the Installation section of ProBell Rotary Applicator, Hollow Wrist manual 334626.

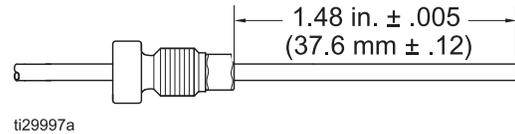


FIG. 1 Hollow Wrist Applicator Fiber Optic Cable Length (All Models)

For a better fit with Standard Applicator models, use the following instructions to adjust hose bundles for installation.

NOTICE

To prevent damage, do not allow the fiber optic or power cable to be in tension on the ProBell or controls end of the hose bundle. Cut air and fluid tubing back if needed.

Standard Electrostatic Applicator Models (RxA1x0)

1. **Paint, Dump, and Solvent Tubing** (24Z1xx models only) — Locate two 5/16" tubes labeled "P" and "D" along with a 1/4" tube labeled "S". Reduce the length of the P, D, and S tubes no more than 6" from its original length. Cut cleanly with a tube cutter to prevent leaks with the fluid fittings.
2. **Fiber Optic Cable** — Use the included cutter tool (Kit 24W823) to reduce the fiber optic cable length. Cut the cable to measure $0.110" \pm 0.005"$ (2.8 ± 0.12 mm) from the flat end of the hex nut fitting to the end of the cable (See FIG. 2).
3. Connect the hose bundle. See the installation section of ProBell Rotary Applicator manual 334452.
4. Bring blue wrap up to the back of the applicator adapter cover and use provided zip ties to secure wrap.

NOTE: Use a wrench to tighten all fluid fittings from the ProBell applicator to the hose bundle.

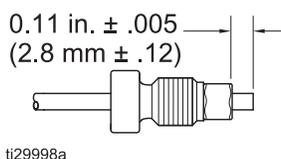


FIG. 2 Standard Electrostatic Applicator Fiber Optic Cable Length

Standard Non-Electrostatic Applicator Models (RxA1x1)

1. Unthread the ferrule from the fiber optic cable end and remove the nut. The parts are not used.

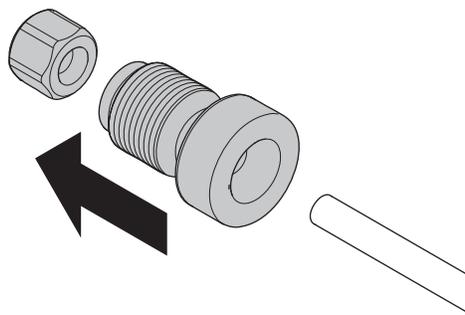


FIG. 3 Ferrule on Fiber Optic Cable End

2. Connect the hose bundle. See the installation section of ProBell Rotary Applicator manual 334452.
3. Bring blue wrap up to the back of the applicator adapter cover and use provided zip ties to secure wrap.

NOTE: Use a wrench to tighten all fluid fittings from the ProBell applicator to the hose bundle.

Hose Bundle Component Identification

Use the instructions in the **Action to Adjust** column below to adjust hose bundle for use with Standard Applicator models.

NOTE: Hollow wrist applicator does not require changes.

Label	Hose / Label Color	Description	Diameter/ Material	Bulk Hose Part Number†	Action to Adjust	
					For Standard Electrostatic Bell	For Non-Electrostatic Standard Bell
P*	Natural/Green	Paint Inlet	5/16" - PFA	057233	Cut 6" off applicator end	No action needed
D*	Natural/White	Recirculation/ Dump	5/16" - PFA	057233		
S*	Natural/Black	Solvent/ Cup Wash	1/4" - PFA	057234		
PT	Green/White	Paint Trigger	5/32" - Nylon	054757	No action needed	
ST	Black/White	Solvent Trigger	5/32" - Nylon	054753		
DT	Natural/White	Dump Trigger	5/32" - Nylon	598095		
BR	Red/White	Bearing Return	5/32" - Nylon	054754		
SO	Natural/Blue	Outside Shaping Air	5/16" - Nylon	057231		
SI	Natural/Gray	Inside Shaping Air	5/16" - Nylon	057231		
B	Natural/Red	Bearing Air	5/16" - Nylon	057231		
BK	Natural/Purple	Brake Air	5/16" - Nylon	057231		
TA	Natural/Brown	Turbine Air	5/16" - Nylon	057231		
1	Black/White	Fiber Optic Cable	Black/White	See "Other Accessories"	Cut 1.370" off applicator end	
Yellow Tag	Black/Yellow	Power Supply, 4 wire	Black/Yellow		No action needed	
None	Green and Yellow	Ground Cable	Green and Yellow			

* Included only in models: 24Z168, 24Z169, 24Z170, 25T742, 25T743, 25T744.

† Hose is sold by the foot, maximum of 100 feet.

NOTE: Maximum working pressure: 150 psi.

California Proposition 65

CALIFORNIA RESIDENTS

 **WARNING:** Cancer and reproductive harm. – www.P65warnings.ca.gov.

Other Accessories

Fiber Optic Cables, Hollow Wrist Models

Kit	Description	Qty
24Z193	CABLE, fiber optic, 11 m (36 ft.)	1
24Z194	CABLE, fiber optic, 20 m (66 ft.)	1
24Z195	CABLE, fiber optic, 30 m (99 ft.)	1

Fiber Optic Cables, Standard Models

Kit	Description	Qty
24Z190	CABLE, fiber optic, 11 m (36 ft.)	1
24Z191	CABLE, fiber optic, 20 m (66 ft.)	1
24Z192	CABLE, fiber optic, 30 m (99 ft.)	1

Kit 24W875, Fiber Optic Cable Repair

Kit	Description	Qty
----	FITTING, fiber optic	4
----	NUT, fiber optic	4
----	TOOL, cutter, fiber optic	1

Kit 24W823, Fiber Optic Cable Cutting Tool

Kit	Description	Qty
----	TOOL, cutter, fiber optic	3

Kit 24X009, Fiber Optic Marker Numbers

Kit	Description	Qty
----	Pack of 30 (#1 and #2)	1

Applicator Power Cables

Kit	Description	Qty
17J586	CABLE, low voltage, 11 m (36 ft.)	1
17J588	CABLE, low voltage, 20 m (66 ft.)	1
17J589	CABLE, low voltage, 30 m (99 ft.)	1

Grounding Cable

Kit	Description	Qty
24Z559	11 m (36 ft.)	1
24Z560	20 m (66 ft.)	1
24Z561	30 m (99 ft.)	1

Hose Kits for Electrostatic Applications

Hollow Wrist Waterborne Fluid Hose Kits (Shielded)

For Models RxA2x8

100 psi (0.69 MPa, 6.9 bar) Maximum Working Pressure

Kit	Description	Qty
24Z199	HOSE, fluid, shielded, 11 m (36 ft.)	1
24Z200	HOSE, fluid, shielded, 20 m (66 ft.)	1

Hollow Wrist Waterborne Fluid Hose Kits (Unshielded)

For Models RxA2x8

100 psi (0.69 MPa, 6.9 bar) Maximum Working Pressure

Kit	Description	Qty
24Z201	HOSE, fluid, unshielded, 11 m (36 ft.)	1
24Z202	HOSE, fluid, unshielded, 20 m (66 ft.)	1

Standard Waterborne Fluid Hose Kits (Shielded)

For Models R_A1_8

100 psi (0.69 MPa, 6.9 bar) Maximum Working Pressure

Kit	Description	Qty
17L886	HOSE, fluid, shielded, 11 m (36 ft.)	1
17L887	HOSE, fluid, shielded, 20 m (66 ft.)	1

Standard Waterborne Fluid Hose Kits (Unshielded)

For Models RxA1x8

100 psi (0.69 MPa, 6.9 bar) Maximum Working Pressure

Kit	Description	Qty
17L884	HOSE, fluid, unshielded, 11 m (36 ft.)	1
17L885	HOSE, fluid, unshielded, 20 m (66 ft.)	1

Graco Standard Warranty

Graco warrants all equipment referenced in this document which is manufactured by Graco and bearing its name to be free from defects in material and workmanship on the date of sale to the original purchaser for use. With the exception of any special, extended, or limited warranty published by Graco, Graco will, for a period of twelve months from the date of sale, repair or replace any part of the equipment determined by Graco to be defective. This warranty applies only when the equipment is installed, operated and maintained in accordance with Graco's written recommendations.

This warranty does not cover, and Graco shall not be liable for general wear and tear, or any malfunction, damage or wear caused by faulty installation, misapplication, abrasion, corrosion, inadequate or improper maintenance, negligence, accident, tampering, or substitution of non-Graco component parts. Nor shall Graco be liable for malfunction, damage or wear caused by the incompatibility of Graco equipment with structures, accessories, equipment or materials not supplied by Graco, or the improper design, manufacture, installation, operation or maintenance of structures, accessories, equipment or materials not supplied by Graco.

This warranty is conditioned upon the prepaid return of the equipment claimed to be defective to an authorized Graco distributor for verification of the claimed defect. If the claimed defect is verified, Graco will repair or replace free of charge any defective parts. The equipment will be returned to the original purchaser transportation prepaid. If inspection of the equipment does not disclose any defect in material or workmanship, repairs will be made at a reasonable charge, which charges may include the costs of parts, labor, and transportation.

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Graco's sole obligation and buyer's sole remedy for any breach of warranty shall be as set forth above. The buyer agrees that no other remedy (including, but not limited to, incidental or consequential damages for lost profits, lost sales, injury to person or property, or any other incidental or consequential loss) shall be available. Any action for breach of warranty must be brought within two (2) years of the date of sale.

GRACO MAKES NO WARRANTY, AND DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, IN CONNECTION WITH ACCESSORIES, EQUIPMENT, MATERIALS OR COMPONENTS SOLD BUT NOT MANUFACTURED BY GRACO. These items sold, but not manufactured by Graco (such as electric motors, switches, hose, etc.), are subject to the warranty, if any, of their manufacturer. Graco will provide purchaser with reasonable assistance in making any claim for breach of these warranties.

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For the latest information about Graco products, visit www.graco.com.

For patent information, see www.graco.com/patents.

TO PLACE AN ORDER, contact your Graco distributor or call to identify the nearest distributor.

Phone: 612-623-6921 **or Toll Free:** 1-800-328-0211 **Fax:** 612-378-3505

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Original instructions. This manual contains English. MM 3A4346

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