

# Cole-Parmer® Hose Barb Fittings Straight

Cole-Parmer®



Easily connect two pieces of tubing with straight hose barb fittings. A single barb on each end of the fitting creates a tight seal to keep the tubing in place.

Fittings are available in standard or cleanroom packed options. Cleanroom packed fittings are manufactured, double bagged, and sealed in an ISO Class 7 cleanroom to ensure that the integrity is not compromised. An ISO Class 7 cleanroom utilizes HEPA filtration systems to maintain air cleanliness levels of less than 10,000 particles of 0.5 µm or larger per cubic foot.



## CERTIFICATION

Cole-Parmer will provide a certificate of compliance FREE at your request where applicable.

## APPLICATIONS

- Bioprocessing fluid transfer, peristaltic pump systems, and general lab applications
- General-purpose, laboratory, and single-use applications

## FEATURES/BENEFITS

- Single barb design tightly “grips” the tubing
- Quick and easy assembly without tools

**WARNING:** This product is not approved or intended for, and should not be used for, medical, clinical, surgical, or other patient-oriented applications.

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China	86.21.5109.9909
India	+1.800.266.1244

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All others	+39.02.84349215 +1.847.549.7600

**Cole-Parmer®**  
coleparmer.com

\*Inquiries from Germany and France are now handled in our St. Neots office by native-speaking experts.

## Materials

### PVDF (Kynar®)

- Excellent chemical resistance
- Temperature range: -35 to 135 °C (-31 to 275 °F)
- Sterilize by ethylene oxide (EtO) or autoclave

Its trade name, Kynar, often refers to PVDF (polyvinylidene fluoride). PVDF is a high-purity engineering thermoplastic with excellent chemical resistance, abrasion resistance, flame resistance, and UV stability. PVDF is widely used for chemical tank liners and semiconductor equipment components.

### Polypropylene (PP)

- Very good chemical resistance
- Temperature range: -23 to 66 °C (-9 to 150 °F)
- Sterilize by ethylene oxide (EtO) or gamma irradiation

Polypropylene is resistant to weak inorganic acids, organic acids, alcohols, ammonia, and oxidizing salts and has limited resistance to aliphatic hydrocarbons, esters, ketones, and ethers. Polypropylene is generally not recommended for aromatic and halogenated hydrocarbons.

### Nylon

- Good chemical resistance
- Temperature range: -46 to 121 °C (-50 to 250 °F)
- Sterilize by ethylene oxide (EtO)

Nylon is resistant to various chemicals, especially aliphatic and aromatic hydrocarbons, alkalis, greases, fuels, lubricants, and ketones. These nylon fittings are made from the same resin as natural nylon, but with FDA-compliant white coloring. They offer good tensile strength, stiffness, and impact resistance.

### Polycarbonate (PC)

- Very good chemical resistance
- Sterilize by ethylene oxide (EtO) or gamma irradiation

Polycarbonate offers very good chemical resistance to many aqueous solutions, diluted acids, alcohols, and non-aromatic hydrocarbons while maintaining excellent clarity and impact strength. Polycarbonate is well suited for applications requiring durability, dimensional stability, and visual inspection of flow paths.

### High-Density Polyethylene (HDPE)

- Excellent chemical resistance

HDPE is softer than nylon, polypropylene, and PVDF. It exhibits excellent resistance to chemicals but has lower thermal resistance than other materials.

## Fittings

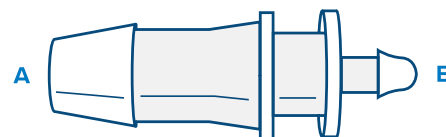
For additional options and complete offering, visit [coleparmer.com](http://coleparmer.com).



Straight



Hose Barb Union



Hose Barb Reducer

## Specification and Ordering Table

Fitting Type	Tubing ID (A)	Tubing ID (B)	Cleanroom Packed	Material	Color	Item Number	Pack Size
Union	1/16"	1/16"	Y	Nylon	Natural	<a href="#">50108-17</a>	10
	1/16"	1/16"	Y	Nylon	White	<a href="#">50108-15</a>	10
	1/16"	1/16"	Y	PVDF	Natural	<a href="#">50108-16</a>	10
	1/16"	1/16"	Y	Polypropylene	Translucent	<a href="#">50108-18</a>	10
	1/16"	1/16"	N	Polycarbonate	Natural	<a href="#">50139-75</a>	10
	3/32"	3/32"	Y	Nylon	White	<a href="#">50108-09</a>	10
	3/32"	3/32"	Y	PVDF	Natural	<a href="#">50108-10</a>	10
	3/32"	3/32"	Y	Polypropylene	Translucent	<a href="#">50108-11</a>	10
	3/32"	3/32"	N	Polycarbonate	Natural	<a href="#">50139-76</a>	10
	1/8"	1/8"	Y	Nylon	White	<a href="#">50108-27</a>	10
	1/8"	1/8"	Y	PVDF	Natural	<a href="#">50108-28</a>	10
	1/8"	1/8"	Y	Polypropylene	Translucent	<a href="#">50108-29</a>	10
	1/8"	1/8"	N	Polycarbonate	Natural	<a href="#">50139-77</a>	10
	5/32"	5/32"	Y	Nylon	White	<a href="#">50108-24</a>	10
	5/32"	5/32"	Y	PVDF	Natural	<a href="#">50108-25</a>	10
	5/32"	5/32"	Y	Polypropylene	Translucent	<a href="#">50108-26</a>	10
	5/32"	5/32"	N	Polycarbonate	Natural	<a href="#">50139-78</a>	10
	3/16"	3/16"	Y	Nylon	White	<a href="#">50108-31</a>	10
	3/16"	3/16"	Y	PVDF	Natural	<a href="#">50108-32</a>	10
	3/16"	3/16"	Y	Polypropylene	Translucent	<a href="#">50108-33</a>	10
	3/16"	3/16"	N	Polycarbonate	Natural	<a href="#">50139-79</a>	10
	1/4"	1/4"	Y	Nylon	White	<a href="#">50108-34</a>	10
	1/4"	1/4"	Y	PVDF	Natural	<a href="#">50108-35</a>	10
	1/4"	1/4"	Y	Polypropylene	Translucent	<a href="#">50108-36</a>	10
	1/4"	1/4"	N	Polycarbonate	Natural	<a href="#">50139-80</a>	10
	5/16"	5/16"	Y	PVDF	Natural	<a href="#">50108-37</a>	10
	5/16"	5/16"	Y	Polypropylene	Translucent	<a href="#">50108-38</a>	10
	3/8"	3/8"	Y	Nylon	Natural	<a href="#">50108-42</a>	10
	3/8"	3/8"	Y	Nylon	White	<a href="#">50108-40</a>	10
	3/8"	3/8"	Y	PVDF	Natural	<a href="#">50108-41</a>	10
	3/8"	3/8"	Y	Polypropylene	Translucent	<a href="#">50108-43</a>	10
	3/8"	3/8"	Y	HDPE	White	<a href="#">50108-39</a>	10
1/2"	1/2"	Y	Nylon	Natural	<a href="#">50108-45</a>	10	
1/2"	1/2"	Y	PVDF	Natural	<a href="#">50108-44</a>	10	
1/2"	1/2"	Y	Polypropylene	Translucent	<a href="#">50108-46</a>	10	

Fitting Type	Tubing ID (A)	Tubing ID (B)	Cleanroom Packed	Material	Color	Item Number	Pack Size
Union	5/8"	5/8"	Y	Nylon	White	<a href="#">50108-12</a>	10
	5/8"	5/8"	Y	PVDF	Natural	<a href="#">50108-13</a>	10
	5/8"	5/8"	Y	Polypropylene	Translucent	<a href="#">50108-14</a>	10
	3/4"	3/4"	Y	PVDF	Natural	<a href="#">50108-19</a>	10
	3/4"	3/4"	Y	Polypropylene	Translucent	<a href="#">50108-20</a>	10
	1"	1"	Y	PVDF	Natural	<a href="#">50108-21</a>	10
	1"	1"	Y	Polypropylene	Translucent	<a href="#">50108-22</a>	10
	Oversized 1"	Oversized 1"	Y	Polypropylene	Translucent	<a href="#">50108-23</a>	10
Reducer	3/32"	1/16"	Y	Nylon	White	<a href="#">50108-47</a>	10
	3/32"	1/16"	Y	PVDF	Natural	<a href="#">50108-48</a>	10
	3/32"	1/16"	Y	Polypropylene	Translucent	<a href="#">50108-49</a>	10
	3/32"	1/16"	N	Polycarbonate	Natural	<a href="#">50140-13</a>	10
	1/8"	1/16"	Y	Nylon	White	<a href="#">50108-79</a>	10
	1/8"	1/16"	Y	PVDF	Natural	<a href="#">50108-80</a>	10
	1/8"	1/16"	Y	Polypropylene	Translucent	<a href="#">50108-81</a>	10
	1/8"	1/16"	N	Polycarbonate	Natural	<a href="#">50140-14</a>	10
	1/8"	3/32"	Y	Nylon	White	<a href="#">50108-75</a>	10
	1/8"	3/32"	Y	PVDF	Natural	<a href="#">50108-76</a>	10
	1/8"	3/32"	Y	Polypropylene	Translucent	<a href="#">50108-77</a>	10
	1/8"	3/32"	N	Polycarbonate	Natural	<a href="#">50140-15</a>	10
	5/32"	1/16"	N	Polycarbonate	Natural	<a href="#">50140-16</a>	10
	5/32"	3/32"	Y	Nylon	White	<a href="#">50108-68</a>	10
	5/32"	3/32"	Y	PVDF	Natural	<a href="#">50108-69</a>	10
	5/32"	3/32"	Y	Polypropylene	Translucent	<a href="#">50108-70</a>	10
	5/32"	3/32"	N	Polycarbonate	Natural	<a href="#">50140-18</a>	10
	5/32"	1/8"	Y	Nylon	White	<a href="#">50108-72</a>	10
	5/32"	1/8"	Y	PVDF	Natural	<a href="#">50108-73</a>	10
	5/32"	1/8"	Y	Polypropylene	Translucent	<a href="#">50108-74</a>	10
5/32"	1/8"	N	Polycarbonate	Natural	<a href="#">50140-17</a>	10	

Fitting Type	Tubing ID (A)	Tubing ID (B)	Cleanroom Packed	Material	Color	Item Number	Pack Size
Reducer	3/16"	1/16"	Y	PVDF	Natural	<a href="#">50108-84</a>	10
	3/16"	1/16"	Y	Polypropylene	Translucent	<a href="#">50108-85</a>	10
	3/16"	1/16"	N	Polycarbonate	Natural	<a href="#">50140-19</a>	10
	3/16"	3/32"	Y	Nylon	White	<a href="#">50108-83</a>	10
	3/16"	3/32"	Y	Polypropylene	Translucent	<a href="#">50108-82</a>	10
	3/16"	3/32"	N	Polycarbonate	Natural	<a href="#">50140-21</a>	10
	3/16"	1/8"	Y	Nylon	White	<a href="#">50108-86</a>	10
	3/16"	1/8"	Y	PVDF	Natural	<a href="#">50108-87</a>	10
	3/16"	1/8"	Y	Polypropylene	Translucent	<a href="#">50108-88</a>	10
	3/16"	1/8"	N	Polycarbonate	Natural	<a href="#">50140-20</a>	10
	3/16"	5/32"	N	Polycarbonate	Natural	<a href="#">50140-22</a>	10
	1/4"	1/16"	Y	PVDF	Natural	<a href="#">50108-91</a>	10
	1/4"	1/16"	Y	Polypropylene	Translucent	<a href="#">50108-92</a>	10
	1/4"	3/32"	Y	PVDF	Natural	<a href="#">50108-89</a>	10
	1/4"	3/32"	Y	Polypropylene	Translucent	<a href="#">50108-90</a>	10
	1/4"	1/8"	Y	Nylon	White	<a href="#">50108-97</a>	10
	1/4"	1/8"	Y	PVDF	Natural	<a href="#">50108-98</a>	10
	1/4"	1/8"	Y	Polypropylene	Translucent	<a href="#">50108-99</a>	10
	1/4"	1/8"	N	Polycarbonate	Natural	<a href="#">50140-23</a>	10
	1/4"	1/8"	Y	HDPE	White	<a href="#">50108-96</a>	10
	1/4"	5/32"	Y	Nylon	White	<a href="#">50108-93</a>	10
	1/4"	5/32"	Y	PVDF	Natural	<a href="#">50108-94</a>	10
	1/4"	5/32"	Y	Polypropylene	Translucent	<a href="#">50108-95</a>	10
	1/4"	5/32"	N	Polycarbonate	Natural	<a href="#">50140-25</a>	10
	1/4"	3/16"	Y	Nylon	White	<a href="#">50109-00</a>	10
	1/4"	3/16"	Y	PVDF	Natural	<a href="#">50109-01</a>	10
	1/4"	3/16"	Y	Polypropylene	Translucent	<a href="#">50109-02</a>	10
	1/4"	3/16"	N	Polycarbonate	Natural	<a href="#">50140-24</a>	10
	5/16"	1/8"	Y	Polypropylene	Translucent	<a href="#">50109-05</a>	10
	5/16"	5/32"	Y	PVDF	Natural	<a href="#">50109-03</a>	10
	5/16"	5/32"	Y	Polypropylene	Translucent	<a href="#">50109-04</a>	10
	5/16"	3/16"	Y	PVDF	Natural	<a href="#">50109-06</a>	10
	5/16"	3/16"	Y	Polypropylene	Translucent	<a href="#">50109-07</a>	10
5/16"	1/4"	Y	Nylon	White	<a href="#">50109-08</a>	10	
5/16"	1/4"	Y	PVDF	Natural	<a href="#">50109-09</a>	10	
5/16"	1/4"	Y	Polypropylene	Translucent	<a href="#">50109-10</a>	10	

Fitting Type	Tubing ID (A)	Tubing ID (B)	Cleanroom Packed	Material	Color	Item Number	Pack Size
Reducer	3/8"	1/8"	Y	PVDF	Natural	<a href="#">50109-13</a>	10
	3/8"	1/8"	Y	Polypropylene	Translucent	<a href="#">50109-14</a>	10
	3/8"	5/32"	Y	PVDF	Natural	<a href="#">50109-11</a>	10
	3/8"	5/32"	Y	Polypropylene	Translucent	<a href="#">50109-12</a>	10
	3/8"	1/4"	Y	Nylon	White	<a href="#">50109-15</a>	10
	3/8"	1/4"	Y	PVDF	Natural	<a href="#">50109-16</a>	10
	3/8"	1/4"	Y	Polypropylene	Translucent	<a href="#">50109-17</a>	10
	3/8"	5/16"	Y	PVDF	Natural	<a href="#">50109-18</a>	10
	3/8"	5/16"	Y	Polypropylene	Translucent	<a href="#">50109-19</a>	10
	1/2"	1/4"	Y	PVDF	Natural	<a href="#">50109-20</a>	10
	1/2"	1/4"	Y	Polypropylene	Translucent	<a href="#">50109-21</a>	10
	1/2"	5/16"	Y	PVDF	Natural	<a href="#">50109-22</a>	10
	1/2"	5/16"	Y	Polypropylene	Translucent	<a href="#">50109-23</a>	10
	1/2"	3/8"	Y	PVDF	Natural	<a href="#">50109-24</a>	10
	1/2"	3/8"	Y	Polypropylene	Translucent	<a href="#">50109-25</a>	10
	5/8"	1/4"	Y	PVDF	Natural	<a href="#">50108-50</a>	10
	5/8"	1/4"	Y	Polypropylene	Translucent	<a href="#">50108-51</a>	10
	5/8"	5/16"	Y	PVDF	Natural	<a href="#">50108-52</a>	10
	5/8"	5/16"	Y	Polypropylene	Translucent	<a href="#">50108-53</a>	10
	5/8"	3/8"	Y	PVDF	Natural	<a href="#">50108-54</a>	10
	5/8"	3/8"	Y	Polypropylene	Translucent	<a href="#">50108-55</a>	10
	5/8"	1/2"	Y	PVDF	Natural	<a href="#">50108-56</a>	10
	5/8"	1/2"	Y	Polypropylene	Translucent	<a href="#">50108-57</a>	10
	3/4"	3/8"	Y	PVDF	Natural	<a href="#">50108-58</a>	10
	3/4"	3/8"	Y	Polypropylene	Translucent	<a href="#">50108-59</a>	10
	3/4"	1/2"	Y	PVDF	Natural	<a href="#">50108-60</a>	10
	3/4"	1/2"	Y	Polypropylene	Translucent	<a href="#">50108-61</a>	10
	1"	1/2"	Y	PVDF	Natural	<a href="#">50108-66</a>	10
	1"	1/2"	Y	Polypropylene	Translucent	<a href="#">50108-67</a>	10
	1"	5/8"	Y	PVDF	Natural	<a href="#">50108-62</a>	10
	1"	5/8"	Y	Polypropylene	Translucent	<a href="#">50108-63</a>	10
	1"	3/4"	Y	PVDF	Natural	<a href="#">50108-64</a>	10
1"	3/4"	Y	Polypropylene	Translucent	<a href="#">50108-65</a>	10	