

Digital Temperature Cable (DTC)

Standard High Visibility Yellow

It all starts with BeadedStream's all-digital temperature cables. DTCs increase the speed and ease of obtaining temperature data and deliver accurate, highly resolved measurements in digital form.



Specifications

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| Application | <ul style="list-style-type: none"> Multi-use industrial temperature monitoring |
| Length | <ul style="list-style-type: none"> Customizable; user specified Standard maximum length of 450 m (1500 ft) |
| Diameter | <ul style="list-style-type: none"> Cable is 7.0 mm \pm 0.1 mm Straight sensor housing is 11 mm \pm 0.5 mm |
| Maximum Operating Temperature Range | <ul style="list-style-type: none"> -55° C to 125° C (-67° F to 257° F) |
| Field Conditions | <ul style="list-style-type: none"> Wet / Dry / Frozen |
| Colors | <ul style="list-style-type: none"> High-visibility yellow; gray (reinforced cable); white Black or white heat shrink available for sensor sections |
| Outer Jacket | <ul style="list-style-type: none"> BeadedStream S724EX polyurethane jacket formulated for low temperature durability and flex with reduced diameter and weight Gray option with reinforced shielding for added protection from wildlife and improved crush resistance UV stabilized Cut and abrasion resistant Flexing minimum temperature -40° C/F |
| Central Strength Member | <ul style="list-style-type: none"> Built-in Aramid fibers increase strength in tension and minimize cable stretch |
| Conductors | <ul style="list-style-type: none"> Stranded tinned copper; 22 AWG; Number: 3 |
| Maximum # of Sensors | <ul style="list-style-type: none"> 110 |
| Sensor Accuracy | <ul style="list-style-type: none"> \pm 0.1° C from -10° C to 30° C (14° F to 86° F) |

DTC Specifications (continued)

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| Sensor Spacing | <ul style="list-style-type: none">• Customizable; user specified• Variable spacing available upon request• Minimum standard spacing: 10 cm• Closer spacing available – please inquire |
| Additional Sensor Features | <ul style="list-style-type: none">• Requires only one signal line for bidirectional communication• Each sensor has a unique ID for individual communication• Operates using input voltage between 3.0 V and 5.5 V• Converts temperatures in 750 ms (max) |