Belden Now Offers
IndustrialTuff® Instrumentation
and Control Cables that
Comply with ICEA Standards,
TC-ER and TC-LS Ratings

Reliability — even in the harshest
of environments — is the hallmark
of Belden® Instrumentation and
Control cables. No matter what
type of insulation, conductor count,
gauge size, jacket, armor or rating
we can meet your needs.

When it’s time to specify cabling for your
instrumentation, control and power needs, you’ll
find that Belden’s IndustrialTuff cables offer the
type of quality and reliability that is consistent
with your long-term needs. And to ensure top
performance in even the harshest of environments,
Belden cables are available with multiple armoring
and jacketing options — making them ideal for all
industries, including petrochemical, pharmaceutical,
mining, power generation, wastewater treatment,
pulp and paper, food processing and transportation.

The Belden Instrumentation and Control product
line consists of 300V Power Limited Tray (PLTC)
instrumentation cables, thermocouple extension
cables and thermocouple wire and 600V TC
instrumentation and control cables.

300V PLTC Instrumentation Cables

These constructions use soft annealed bare or
tinned copper conductors with flame retardant
PVC insulation and jackets. (Other insulation and
jacket options are available.) A nylon rip cord is
included in all PVC/PVC instrumentation cables.
All cable jackets are resistant to sunlight, moisture
and vapor penetration and all products are
Indoor/Outdoor rated. PVC/PVC products, with
at least three conductors of 20 AWG or larger,
are rated for direct burial. Multiple pair or triad
cables have each pair/triad numbered for ease
of identification.

300V Thermocouple Extension Cables
and Thermocouple Wire

The thermocouple extension wire type determines the
conductor material. The insulations and jackets are
either FEP or PVC. A nylon rip cord is included in all
PVC-jacketed thermocouple extension cables.

600V TC Instrumentation
and Control Cables

600V TC Instrumentation and Control Cables are
installed in cable trays, ducts and conduit and can
be used in direct burial applications (PVC-Nylon/
PVC, XLPE/PVC, and XL/P) Haloarrest® constructions
only). All products are Indoor/Outdoor rated and
are sunlight resistant. 600V cables are used
tensively in manufacturing facilities — especially
the petrochemical, steel, pulp and paper, cement,
and mining industries.

These cables utilize soft annealed bare or tinned
copper conductors; they are PVC insulated with a
nylon-overcoat; jacketed with 90°C PVC; and use
TFN, TFFN or THHN style singles. (XLPE insulated
cables use XHHW-2 or RFH-2 rated singles.) Other
insulation and jacket combinations are available
as specials. A nylon rip cord is included in all
PVC-Nylon/PVC instrumentation cables. Multiple
pairs or triad cables have each pair/triad numbered
for ease of identification. Armored and MC-rated
products are available as specials.

Intrinsically Safe

All instrumentation and control cables are available
(as an option) with a Blue jacket for intrinsically
safe applications.
300V Cables

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<tr>
<th>Insulation</th>
<th>Jacket</th>
<th>PLTC</th>
<th>ITC</th>
<th>PLTC-ER</th>
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<th>CMP or CL3P</th>
<th>Flame Tests</th>
<th>Direct Burial</th>
<th>ICEA S-73-532</th>
<th>ICEA S-82-525</th>
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600V Cables

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Note: All products are Indoor/Outdoor rated and sunlight-resistant. 1000V and 2000V IECA-rated cables are available with a minimum order of 5000 ft. 2000V UL1277 TC cables are available with a minimum order of 5000 ft.