NOTES:
1. SPACE HILTI S-BT STUDS ACCORDINGLY TO ACCOMMODATE DESIGN LOADS.
2. S-BT STUDS SHALL BE INSTALLED PER HILTI INSTALLATION INSTRUCTIONS.
3. HEX NUT SHALL BE USED AS NEEDED TO FACILITATE ALIGNMENT AND TIGHTENING OF ESL HANGER. ENSURE S-BT IS NOT OVERTORQUED.
* CONTACT HILTI ENGINEERING IF THINNER BASE MATERIAL.

ESL - SS Cable Hangers

<table>
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<th>Item #</th>
<th>Product ID</th>
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<th>Packaging</th>
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(U.V RESISTANT SEALING WASHER WITH STAINLESS STEEL COVER)

(MINIMUM 1/4" *)

(CABLE TIE)

(HEX NUT 3/8"-16, 316 SS (F 594))

(S-BT MR W10/15 SN6 SCREW-IN TUREADED STUD)

(CABLE STEEL OR MI)

(U.V RESISTANT SEALING WASHER WITH STAINLESS STEEL COVER)

(HILTI)

(CABLE TIE)

(HEX NUT 3/8"-16, 316 SS (F 594))

(S-BT MR W10/15 SN6 SCREW-IN TUREADED STUD)

(CABLE STEEL OR MI)

(U.V RESISTANT SEALING WASHER WITH STAINLESS STEEL COVER)
ESL (SS CABLE HANGER)
- ref schedule below

U.V. RESISTANT SEALING WASHER
WITH STAINLESS STEEL COVER

CABLE TIE

HEX NUT 3/8-16, 316 SS (F 594)

CABLE

MINIMUM 5/16" *

HILTI X-BT W10-24-6
SN12-R POWDER ACTUATED STUD

NOTES:
1. SPACE POWDER-ACTUATED STUDS ACCORDINGLY TO ACCOMMODATE DESIGN LOADS.
2. POWDER-ACTUATED STUDS SHALL BE INSTALLED PER HILTI INSTALLATION INSTRUCTIONS.
3. HEX NUT SHALL BE USED AS NEEDED TO FACILITATE ALIGNMENT AND TIGHTENING OF ESL HANGER. ENSURE X-BT IS NOT OVERTORQUED.
   ★ CONTACT HILTI ENGINEERING IF THINNER BASE MATERIAL.

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</table>
NOTE:

1. GROUND WIRE ACCORDING TO DESIGN ENGINEERING DETAIL. MAXIMUM 8 AWG SINGLE POINT, 6 AWG DOUBLE POINT. ACCORDING TO EN 60439-1 AND EN 60204-1.
2. HILTI S-BT STUDS SHALL BE INSTALLED PER HILTI INSTALLATION INSTRUCTIONS.

THIS DRAWING REPRESENTS A COMMON APPLICATION USED ON PETROCHEMICAL PROJECTS IN UPSTREAM OR DOWNSTREAM TO THE BEST OF HILTI'S KNOWLEDGE. THIS DRAWING IS NEITHER A TECHNICAL DOCUMENTATION NOR AN ENGINEERING JUDGMENT. PLEASE REFER TO PRODUCT TECHNICAL DATA OF EACH HILTI PRODUCT TO CHECK FOR APPLICABLE LIMITATIONS.
SINGLE POINT CONNECTION

FASTENERS
X-BT M10-24-6 SN12-R,
X-BT W10-24-6 SN12-R,
X-BT M6-24-6 SN12-R,
X-BT W6-24-6 SN12-R

MAXIMUM CONNECTED CABLE SIZE
≤ 10 mm COPPER (8 AWG)

DOUBLE POINT CONNECTION

FASTENERS
X-BT M10-24-6 SN12-R,
X-BT W10-24-6 SN12-R,
X-BT M6-24-6 SN12-R,
X-BT W6-24-6 SN12-R

MAXIMUM CONNECTED CABLE SIZE
≤ 16 mm COPPER (6 AWG)

NOTE:
1. GROUND WIRE ACCORDING TO DESIGN ENGINEERING DETAIL. MAXIMUM 8 AWG SINGLE POINT,
   6 AWG DOUBLE POINT. ACCORDING TO EN 60439-1 AND EN 60204-1.
2. POWDER-ACTUATED STUDS SHALL BE INSTALLED PER HILTI INSTALLATION INSTRUCTIONS.

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1. SPACE HILTI S-BT STUDS ACCORDINGLY TO ACCOMMODATE DESIGN REQUIREMENTS.
2. HILTI S-BT STUDS SHALL BE INSTALLED PER HILTI INSTALLATION INSTRUCTIONS

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<tr>
<th>Item</th>
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<td>HEX JAM NUT 3/8-16, ALLOY GROUP 2 (316SS) ACCORDING TO ASTM F 594</td>
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<tr>
<td>3</td>
<td>REGULAR HELICAL SPRING LOCK WASHER ACCORDING TO B18.12.1, 316 STAINLESS STEEL ACCORDING TO SAE J405.</td>
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<tr>
<td>4</td>
<td>TYPE A PLAIN WASHER ACCORDING TO ANSI B18.22.1, MATERIAL ACCORDING TO ASTM AZ4D TYPE 316.</td>
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<tr>
<td>5</td>
<td>RING TERMINATED COPPER OR ALUMINUM CONDUCTORS</td>
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NOTES:
1. SPACE POWDER-ACTUATED STUDS ACCORDINGLY TO ACCOMMODATE DESIGN REQUIREMENTS.
2. POWDER-ACTUATED STUDS SHALL BE INSTALLED PER HILTI INSTALLATION INSTRUCTIONS

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<tr>
<td>2</td>
<td>HEX JAM NUT 3/8-16, ALLOY GROUP 2 (316SS) ACCORDING TO ASTM F 594</td>
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<td>5</td>
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</tbody>
</table>
HILTI X–BT–ER W10/3 SN4 ASSEMBLY FOR FUNCTIONAL BONDING AND TERMINAL CONNECTION

1. UPPER NUT A4 / AISI GRADE 316 MATERIAL
2. LOCK WASHER A4 / AISI GRADE 316 MATERIAL
3. CABLE LUG THICKNESS ≤ 0.12” (3 mm)
4. BOTTOM NUT A4 / AISI GRADE 316 MATERIAL
* MAXIMUM ALLOWABLE PERMANENT CURRENT = 40A
HILTI X–BT–ER W10/3 SN4
ONE NUT CONNECTION ASSEMBLY
FOR LIGHTNING PROTECTION

1. NUT A4 / AISI GRADE 316 MATERIAL
2. LOCK WASHER A4 / AISI GRADE 316 MATERIAL
3. TYPE A PLAIN WASHER ACCORDING TO ANSI B18.22.1, MATERIAL ACCORDING TO ASTM A240 TYPE 316
4. CABLE LUG THICKNESS 0.079” to 0.47” (2 mm TO 12 mm), HOLE DIAMETER ≥ 0.51” (13 mm)