

## How to use Cable Diagnostics via SNMP on DES-3200 C1 R4.00

### Example:

1. Cable diagnostics only works on one port at a time. Before a user wants to check the cable info on a port, he/she has to run the function on that port first for one time.

Run cable diagnostics on port **13**:

**cable\_diag ports 13**

```
C:\snmpset -c private -v 2c 10.90.90.90 1.3.6.1.4.1.171.12.58.1.1.1.12.13
i 1
```

2. After the function has been run, the results are available. A user can check the results of different categories such as pair2 status, pair3 status, pair4 length, etc. Each category has a separate OID. Please refer to the following snapshots for each category.

Check the status of pair2 of port **13**:

```
C:\snmpwalk -c private -v 2c 10.90.90.90 1.3.6.1.4.1.171.12.58.1.1.1.5.13
```

Check the status of pair3 of port **13**:

```
C:\snmpwalk -c private -v 2c 10.90.90.90 1.3.6.1.4.1.171.12.58.1.1.1.6.13
```

Check the length of pair3 of port **13**:

```
C:\snmpwalk -c private -v 2c 10.90.90.90 1.3.6.1.4.1.171.12.58.1.1.1.10.13
```

### MIB: **CableDiag.mib**

#### OIDs:

1.3.6.1.4.1.171.12.58.1.1.1.1  
1.3.6.1.4.1.171.12.58.1.1.1.2  
1.3.6.1.4.1.171.12.58.1.1.1.3  
1.3.6.1.4.1.171.12.58.1.1.1.4  
1.3.6.1.4.1.171.12.58.1.1.1.5  
1.3.6.1.4.1.171.12.58.1.1.1.6  
1.3.6.1.4.1.171.12.58.1.1.1.7  
1.3.6.1.4.1.171.12.58.1.1.1.8  
1.3.6.1.4.1.171.12.58.1.1.1.9  
1.3.6.1.4.1.171.12.58.1.1.1.10  
1.3.6.1.4.1.171.12.58.1.1.1.11  
1.3.6.1.4.1.171.12.58.1.1.1.12

| MIB Tree                    | Object name | swCableDiagCtrl         |
|-----------------------------|-------------|-------------------------|
|                             | Object ID   | 1.3.6.1.4.1.171.12.58.1 |
|                             | Module      | CABLE-DIAG-MIB          |
| iso                         | Base syntax | Object Identifier       |
| swCableDiagMIB              | Access      | Not Accessible          |
| swCableDiagCtrl             | Status      | Mandatory               |
| swEtherCableDiagTable       | Parent node | swCableDiagMIB          |
| swEtherCableDiagEntry       | First child | swEtherCableDiagTable   |
| swEtherCableDiagPortIndex   |             |                         |
| swEtherCableDiagPortType    |             |                         |
| swEtherCableDiagLinkStatus  |             |                         |
| swEtherCableDiagPair1Status |             |                         |
| swEtherCableDiagPair2Status |             |                         |
| swEtherCableDiagPair3Status |             |                         |
| swEtherCableDiagPair4Status |             |                         |
| swEtherCableDiagPair1Length |             |                         |
| swEtherCableDiagPair2Length |             |                         |
| swEtherCableDiagPair3Length |             |                         |
| swEtherCableDiagPair4Length |             |                         |
| swEtherCableDiagAction      |             |                         |
| swEtherCableDiagStatus      |             |                         |

|   |  |                    |                       |                  |                           |               |                |                    |                                   |               |                |               |         |                 |  |                    |                 |                    |                       |                    |  |
|---|--|--------------------|-----------------------|------------------|---------------------------|---------------|----------------|--------------------|-----------------------------------|---------------|----------------|---------------|---------|-----------------|--|--------------------|-----------------|--------------------|-----------------------|--------------------|--|
| <p><b>MIB Tree</b></p> <pre> graph TD     iso[iso] --&gt; swCableDiagMIB[swCableDiagMIB]     swCableDiagMIB --&gt; swCableDiagCtrl[swCableDiagCtrl]     swCableDiagCtrl --&gt; swEtherCableDiagTable[swEtherCableDiagTable]     swEtherCableDiagTable --&gt; swEtherCableDiagEntry[swEtherCableDiagEntry]     swEtherCableDiagEntry --&gt; swEtherCableDiagPortIndex[swEtherCableDiagPortIndex]     swEtherCableDiagEntry --&gt; swEtherCableDiagPortType[swEtherCableDiagPortType]     swEtherCableDiagEntry --&gt; swEtherCableDiagLinkStatus[swEtherCableDiagLinkStatus]     swEtherCableDiagEntry --&gt; swEtherCableDiagPair1Status[swEtherCableDiagPair1Status]     swEtherCableDiagEntry --&gt; swEtherCableDiagPair2Status[swEtherCableDiagPair2Status]     swEtherCableDiagEntry --&gt; swEtherCableDiagPair3Status[swEtherCableDiagPair3Status]     swEtherCableDiagEntry --&gt; swEtherCableDiagPair4Status[swEtherCableDiagPair4Status]     swEtherCableDiagEntry --&gt; swEtherCableDiagPair1Length[swEtherCableDiagPair1Length]     swEtherCableDiagEntry --&gt; swEtherCableDiagPair2Length[swEtherCableDiagPair2Length]     swEtherCableDiagEntry --&gt; swEtherCableDiagPair3Length[swEtherCableDiagPair3Length]     swEtherCableDiagEntry --&gt; swEtherCableDiagPair4Length[swEtherCableDiagPair4Length]     swEtherCableDiagEntry --&gt; swEtherCableDiagAction[swEtherCableDiagAction]     swEtherCableDiagEntry --&gt; swEtherCableDiagStatus[swEtherCableDiagStatus]   </pre> <p><b>SNMPv1 Traps</b></p> <ul style="list-style-type: none"> <li><span style="color: red;">■</span> No Traps</li> <li>Type Assignments</li> <li><span style="color: red;">■</span> No Type Assignments</li> </ul> <p>Faulted Components</p> | <table border="1"> <tbody> <tr> <td><b>Object name</b></td><td>swEtherCableDiagTable</td></tr> <tr> <td><b>Object ID</b></td><td>1.3.6.1.4.1.171.12.58.1.1</td></tr> <tr> <td><b>Module</b></td><td>CABLE-DIAG-MIB</td></tr> <tr> <td><b>Base syntax</b></td><td>Sequence Of swEtherCableDiagEntry</td></tr> <tr> <td><b>Access</b></td><td>Not_Accessible</td></tr> <tr> <td><b>Status</b></td><td>Current</td></tr> <tr> <td><b>Sequence</b></td><td> <pre> 1:swEtherCableDiagPortIndex - Integer 2:swEtherCableDiagPortType - Integer 3:swEtherCableDiagLinkStatus - Integer 4:swEtherCableDiagPair1Status - Integer 5:swEtherCableDiagPair2Status - Integer 6:swEtherCableDiagPair3Status - Integer 7:swEtherCableDiagPair4Status - Integer 8:swEtherCableDiagPair1Length - Integer 9:swEtherCableDiagPair2Length - Integer 10:swEtherCableDiagPair3Length - Integer 11:swEtherCableDiagPair4Length - Integer 12:swEtherCableDiagAction - Integer 13:swEtherCableDiagStatus - Integer   </pre> </td></tr> <tr> <td><b>Parent node</b></td><td>swCableDiagCtrl</td></tr> <tr> <td><b>First child</b></td><td>swEtherCableDiagEntry</td></tr> <tr> <td><b>Description</b></td><td>A table that contains the cable situation for each port.</td></tr> </tbody> </table> | <b>Object name</b> | swEtherCableDiagTable | <b>Object ID</b> | 1.3.6.1.4.1.171.12.58.1.1 | <b>Module</b> | CABLE-DIAG-MIB | <b>Base syntax</b> | Sequence Of swEtherCableDiagEntry | <b>Access</b> | Not_Accessible | <b>Status</b> | Current | <b>Sequence</b> | <pre> 1:swEtherCableDiagPortIndex - Integer 2:swEtherCableDiagPortType - Integer 3:swEtherCableDiagLinkStatus - Integer 4:swEtherCableDiagPair1Status - Integer 5:swEtherCableDiagPair2Status - Integer 6:swEtherCableDiagPair3Status - Integer 7:swEtherCableDiagPair4Status - Integer 8:swEtherCableDiagPair1Length - Integer 9:swEtherCableDiagPair2Length - Integer 10:swEtherCableDiagPair3Length - Integer 11:swEtherCableDiagPair4Length - Integer 12:swEtherCableDiagAction - Integer 13:swEtherCableDiagStatus - Integer   </pre> | <b>Parent node</b> | swCableDiagCtrl | <b>First child</b> | swEtherCableDiagEntry | <b>Description</b> | A table that contains the cable situation for each port. |
| <b>Object name</b>  | swEtherCableDiagTable  |                    |                       |                  |                           |               |                |                    |                                   |               |                |               |         |                 |  |                    |                 |                    |                       |                    |  |
| <b>Object ID</b>  | 1.3.6.1.4.1.171.12.58.1.1  |                    |                       |                  |                           |               |                |                    |                                   |               |                |               |         |                 |  |                    |                 |                    |                       |                    |  |
| <b>Module</b>   | CABLE-DIAG-MIB   |                    |                       |                  |                           |               |                |                    |                                   |               |                |               |         |                 |  |                    |                 |                    |                       |                    |  |
| <b>Base syntax</b>  | Sequence Of swEtherCableDiagEntry  |                    |                       |                  |                           |               |                |                    |                                   |               |                |               |         |                 |  |                    |                 |                    |                       |                    |  |
| <b>Access</b>   | Not_Accessible   |                    |                       |                  |                           |               |                |                    |                                   |               |                |               |         |                 |  |                    |                 |                    |                       |                    |  |
| <b>Status</b>   | Current  |                    |                       |                  |                           |               |                |                    |                                   |               |                |               |         |                 |  |                    |                 |                    |                       |                    |  |
| <b>Sequence</b>   | <pre> 1:swEtherCableDiagPortIndex - Integer 2:swEtherCableDiagPortType - Integer 3:swEtherCableDiagLinkStatus - Integer 4:swEtherCableDiagPair1Status - Integer 5:swEtherCableDiagPair2Status - Integer 6:swEtherCableDiagPair3Status - Integer 7:swEtherCableDiagPair4Status - Integer 8:swEtherCableDiagPair1Length - Integer 9:swEtherCableDiagPair2Length - Integer 10:swEtherCableDiagPair3Length - Integer 11:swEtherCableDiagPair4Length - Integer 12:swEtherCableDiagAction - Integer 13:swEtherCableDiagStatus - Integer   </pre>   |                    |                       |                  |                           |               |                |                    |                                   |               |                |               |         |                 |  |                    |                 |                    |                       |                    |  |
| <b>Parent node</b>  | swCableDiagCtrl  |                    |                       |                  |                           |               |                |                    |                                   |               |                |               |         |                 |  |                    |                 |                    |                       |                    |  |
| <b>First child</b>  | swEtherCableDiagEntry  |                    |                       |                  |                           |               |                |                    |                                   |               |                |               |         |                 |  |                    |                 |                    |                       |                    |  |
| <b>Description</b>  | A table that contains the cable situation for each port.   |                    |                       |                  |                           |               |                |                    |                                   |               |                |               |         |                 |  |                    |                 |                    |                       |                    |  |

|  |   |             |                       |           |                             |        |                |             |          |        |                |        |         |       |                             |             |                       |             |                           |             |   |
|--|---|-------------|-----------------------|-----------|-----------------------------|--------|----------------|-------------|----------|--------|----------------|--------|---------|-------|-----------------------------|-------------|-----------------------|-------------|---------------------------|-------------|---|
| <p><b>MIB Tree</b></p> <ul style="list-style-type: none"> <li>iso</li> <li>swCableDiagMIB           <ul style="list-style-type: none"> <li>swCableDiagCtrl               <ul style="list-style-type: none"> <li>swEtherCableDiagTable                   <ul style="list-style-type: none"> <li><b>swEtherCableDiagEntry</b> <ul style="list-style-type: none"> <li>swEtherCableDiagPortIndex</li> <li>swEtherCableDiagPortType</li> <li>swEtherCableDiagLinkStatus</li> <li>swEtherCableDiagPair1Status</li> <li>swEtherCableDiagPair2Status</li> <li>swEtherCableDiagPair3Status</li> <li>swEtherCableDiagPair4Status</li> <li>swEtherCableDiagPair1Length</li> <li>swEtherCableDiagPair2Length</li> <li>swEtherCableDiagPair3Length</li> <li>swEtherCableDiagPair4Length</li> <li>swEtherCableDiagAction</li> <li>swEtherCableDiagStatus</li> </ul> </li> </ul> </li> </ul> </li> </ul> </li></ul> | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Object name</td><td>swEtherCableDiagEntry</td></tr> <tr> <td>Object ID</td><td>1.3.6.1.4.1.171.12.58.1.1.1</td></tr> <tr> <td>Module</td><td>CABLE-DIAG-MIB</td></tr> <tr> <td>Base syntax</td><td>Sequence</td></tr> <tr> <td>Access</td><td>Not_Accessible</td></tr> <tr> <td>Status</td><td>Current</td></tr> <tr> <td>Index</td><td>1.swEtherCableDiagPortIndex</td></tr> <tr> <td>Parent node</td><td>swEtherCableDiagTable</td></tr> <tr> <td>First child</td><td>swEtherCableDiagPortIndex</td></tr> <tr> <td>Description</td><td>A list of cable situations for each port on the device.</td></tr> </table> | Object name | swEtherCableDiagEntry | Object ID | 1.3.6.1.4.1.171.12.58.1.1.1 | Module | CABLE-DIAG-MIB | Base syntax | Sequence | Access | Not_Accessible | Status | Current | Index | 1.swEtherCableDiagPortIndex | Parent node | swEtherCableDiagTable | First child | swEtherCableDiagPortIndex | Description | A list of cable situations for each port on the device. |
| Object name  | swEtherCableDiagEntry   |             |                       |           |                             |        |                |             |          |        |                |        |         |       |                             |             |                       |             |                           |             |   |
| Object ID  | 1.3.6.1.4.1.171.12.58.1.1.1   |             |                       |           |                             |        |                |             |          |        |                |        |         |       |                             |             |                       |             |                           |             |   |
| Module   | CABLE-DIAG-MIB  |             |                       |           |                             |        |                |             |          |        |                |        |         |       |                             |             |                       |             |                           |             |   |
| Base syntax  | Sequence  |             |                       |           |                             |        |                |             |          |        |                |        |         |       |                             |             |                       |             |                           |             |   |
| Access   | Not_Accessible  |             |                       |           |                             |        |                |             |          |        |                |        |         |       |                             |             |                       |             |                           |             |   |
| Status   | Current   |             |                       |           |                             |        |                |             |          |        |                |        |         |       |                             |             |                       |             |                           |             |   |
| Index  | 1.swEtherCableDiagPortIndex   |             |                       |           |                             |        |                |             |          |        |                |        |         |       |                             |             |                       |             |                           |             |   |
| Parent node  | swEtherCableDiagTable   |             |                       |           |                             |        |                |             |          |        |                |        |         |       |                             |             |                       |             |                           |             |   |
| First child  | swEtherCableDiagPortIndex   |             |                       |           |                             |        |                |             |          |        |                |        |         |       |                             |             |                       |             |                           |             |   |
| Description  | A list of cable situations for each port on the device.   |             |                       |           |                             |        |                |             |          |        |                |        |         |       |                             |             |                       |             |                           |             |   |

|   |   |
|---|---|
| MIB Tree  |   |
| iso   |   |
| swCableDiagMIB  |   |
| swCableDiagCtrl   |   |
| swEtherCableDiagTable   |   |
| swEtherCableDiagEntry   |   |
| swEtherCableDiagPortIndex   | Object name swEtherCableDiagPortIndex   |
| swEtherCableDiagPortType  | Object ID 1.3.6.1.4.1.171.12.58.1.1.1.1 |
| swEtherCableDiagLinkStatus  | Module CABLE-DIAG-MIB                   |
| swEtherCableDiagPair1Status   | Base syntax Integer                     |
| swEtherCableDiagPair2Status   | Composed syntax INTEGER                 |
| swEtherCableDiagPair3Status   | Access Read-Only                        |
| swEtherCableDiagPair4Status   | Status Current                          |
| swEtherCableDiagPair1Length   | Value list 1 : 0..65535                 |
| swEtherCableDiagPair2Length   |   |
| swEtherCableDiagPair3Length   |   |
| swEtherCableDiagPair4Length   |   |
| swEtherCableDiagAction  |   |
| swEtherCableDiagStatus  |   |
| Parent node swEtherCableDiagEntry   |   |
| First child None  |   |
| Description This object indicates the module's port number.(1..Max port number in the module) |   |
| SNMPv1 Traps  |   |

| MIB Tree                    |  |                 |  |
|-----------------------------|--|-----------------|--|
| iso                         |  | Object name     | swEtherCableDiagPortType                                   |
| swCableDiagMIB              |  | Object ID       | 1.3.6.1.4.1.171.12.58.1.1.1.2                              |
| swCableDiagCtrl             |  | Module          | CABLE-DIAG-MIB   |
| swEtherCableDiagTable       |  | Base syntax     | Integer  |
| swEtherCableDiagEntry       |  | Composed syntax | INTEGER  |
| swEtherCableDiagPortIndex   |  | Access          | Read-Only  |
| swEtherCableDiagPortType    |  | Status          | Current  |
| swEtherCableDiagLinkStatus  |  | Value list      | 1 : fastEthernet(0)<br>2 : gigaEthernet(1)<br>3 : other(2) |
| swEtherCableDiagPair1Status |  |                 |  |
| swEtherCableDiagPair2Status |  |                 |  |
| swEtherCableDiagPair3Status |  |                 |  |
| swEtherCableDiagPair4Status |  |                 |  |
| swEtherCableDiagPair1Length |  |                 |  |
| swEtherCableDiagPair2Length |  |                 |  |
| swEtherCableDiagPair3Length |  |                 |  |
| swEtherCableDiagPair4Length |  |                 |  |
| swEtherCableDiagAction      |  |                 |  |
| swEtherCableDiagStatus      |  |                 |  |
| SNMPv1 Trans                |  | Parent node     | swEtherCableDiagEntry                                      |
|                             |  | First child     | None   |
|                             |  | Description     | Indicates the supported port data rate classification.     |

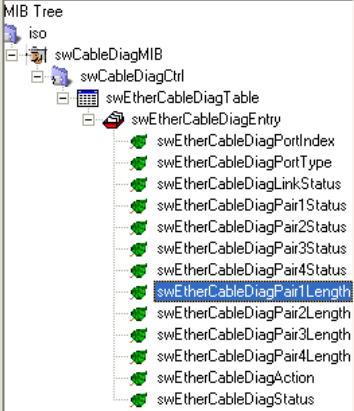
| MIB Tree                    |  |                 |  |
|-----------------------------|--|-----------------|--|
| iso                         |  | Object name     | swEtherCableDiagLinkStatus                         |
| swCableDiagMIB              |  | Object ID       | 1.3.6.1.4.1.171.12.58.1.1.1.3                      |
| swCableDiagCtrl             |  | Module          | CABLE-DIAG-MIB                                     |
| swEtherCableDiagTable       |  | Base syntax     | Integer  |
| swEtherCableDiagEntry       |  | Composed syntax | INTEGER  |
| swEtherCableDiagPortIndex   |  | Access          | Read-Only  |
| swEtherCableDiagPortType    |  | Status          | Current  |
| swEtherCableDiagLinkStatus  |  | Value list      | 1 : link-down(0)<br>2 : link-up(1)<br>3 : other(2) |
| swEtherCableDiagPair1Status |  |                 |  |
| swEtherCableDiagPair2Status |  |                 |  |
| swEtherCableDiagPair3Status |  |                 |  |
| swEtherCableDiagPair4Status |  |                 |  |
| swEtherCableDiagPair1Length |  |                 |  |
| swEtherCableDiagPair2Length |  |                 |  |
| swEtherCableDiagPair3Length |  |                 |  |
| swEtherCableDiagPair4Length |  |                 |  |
| swEtherCableDiagAction      |  |                 |  |
| swEtherCableDiagStatus      |  |                 |  |
| SNMPv1 Traps                |  | Parent node     | swEtherCableDiagEntry                              |
|                             |  | First child     | None   |
|                             |  | Description     | This object indicates the link status.             |

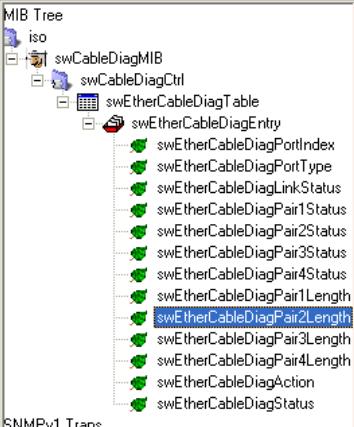
| MIB Tree                    |  |                 |  |
|-----------------------------|--|-----------------|--|
| iso                         |  | Object name     | swEtherCableDiagPair1Status  |
| swCableDiagMIB              |  | Object ID       | 1.3.6.1.4.1.171.12.58.1.1.1.4  |
| swCableDiagCtrl             |  | Module          | CABLE-DIAG-MIB   |
| swEtherCableDiagTable       |  | Base syntax     | Integer  |
| swEtherCableDiagEntry       |  | Composed syntax | INTEGER  |
| swEtherCableDiagPortIndex   |  | Access          | Read-Only  |
| swEtherCableDiagPortType    |  | Status          | Current  |
| swEtherCableDiagLinkStatus  |  | Value list      | 1 : ok(0)<br>2 : open(1)<br>3 : short(2)<br>4 : open-short(3)<br>5 : crosstalk(4)<br>6 : unknown(5)<br>7 : count(6)<br>8 : no-cable(7)<br>9 : other(8) |
| swEtherCableDiagPair1Status |  |                 |  |
| swEtherCableDiagPair2Status |  |                 |  |
| swEtherCableDiagPair3Status |  |                 |  |
| swEtherCableDiagPair4Status |  |                 |  |
| swEtherCableDiagPair1Length |  |                 |  |
| swEtherCableDiagPair2Length |  |                 |  |
| swEtherCableDiagPair3Length |  |                 |  |
| swEtherCableDiagPair4Length |  |                 |  |
| swEtherCableDiagAction      |  |                 |  |
| swEtherCableDiagStatus      |  |                 |  |
| SNMPv1 Traps                |  | Parent node     | swEtherCableDiagEntry  |
| No Traps                    |  | First child     | None   |
|                             |  | Description     | This object indicates the status of pair 1 of the cable.   |

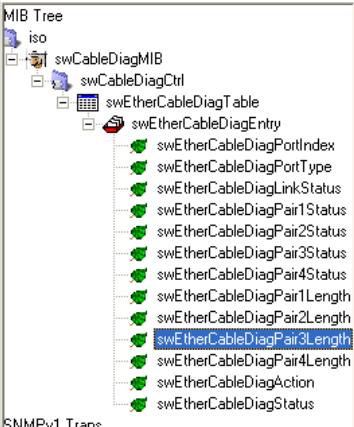
| MIB Tree |  | Object name     | swEtherCableDiagPair2Status  |
|----------|--|-----------------|--|
|          |  | Object ID       | 1.3.6.1.4.1.171.12.58.1.1.1.5  |
|          |  | Module          | CABLE-DIAG-MIB   |
|          |  | Base syntax     | Integer  |
|          |  | Composed syntax | INTEGER  |
|          |  | Access          | Read-Only  |
|          |  | Status          | Current  |
|          |  | Value list      | 1 : ok(0)<br>2 : open(1)<br>3 : short(2)<br>4 : open-short(3)<br>5 : crosstalk(4)<br>6 : unknown(5)<br>7 : count(6)<br>8 : no-cable(7)<br>9 : other(8) |
|          |  | Parent node     | swEtherCableDiagEntry  |
|          |  | First child     | None   |
|          |  | Description     | This object indicates the status of pair 2 of the cable.   |

| MIB Tree |  | Object name     | swEtherCableDiagPair3Status  |
|----------|--|-----------------|--|
|          |  | Object ID       | 1.3.6.1.4.1.171.12.58.1.1.1.6  |
|          |  | Module          | CABLE-DIAG-MIB   |
|          |  | Base syntax     | Integer  |
|          |  | Composed syntax | INTEGER  |
|          |  | Access          | Read-Only  |
|          |  | Status          | Current  |
|          |  | Value list      | 1 : ok(0)<br>2 : open(1)<br>3 : short(2)<br>4 : open-short(3)<br>5 : crosstalk(4)<br>6 : unknown(5)<br>7 : count(6)<br>8 : no-cable(7)<br>9 : other(8) |
|          |  | Parent node     | swEtherCableDiagEntry  |
|          |  | First child     | None   |
|          |  | Description     | This object indicates the status of pair 3 of the cable.   |

| MIB Tree |  | Object name     | swEtherCableDiagPair4Status  |
|----------|--|-----------------|--|
|          |  | Object ID       | 1.3.6.1.4.1.171.12.58.1.1.1.7  |
|          |  | Module          | CABLE-DIAG-MIB   |
|          |  | Base syntax     | Integer  |
|          |  | Composed syntax | INTEGER  |
|          |  | Access          | Read-Only  |
|          |  | Status          | Current  |
|          |  | Value list      | 1 : ok(0)<br>2 : open(1)<br>3 : short(2)<br>4 : open-short(3)<br>5 : crosstalk(4)<br>6 : unknown(5)<br>7 : count(6)<br>8 : no-cable(7)<br>9 : other(8) |
|          |  | Parent node     | swEtherCableDiagEntry  |
|          |  | First child     | None   |
|          |  | Description     | This object indicates the status of pair 4 of the cable.   |

| MIB Tree  |  | Object name     | swEtherCableDiagPair1Length   |
|---|--|-----------------|---|
|   |  | Object ID       | 1.3.6.1.4.1.171.12.58.1.1.1.8   |
|   |  | Module          | CABLE-DIAG-MIB  |
|  |  | Base syntax     | Integer   |
|   |  | Composed syntax | INTEGER   |
|   |  | Access          | Read-Only   |
|   |  | Status          | Current   |
|   |  | Parent node     | swEtherCableDiagEntry   |
|   |  | First child     | None  |
|   |  | Description     | This object indicates the approx. length or length to the failure of pair 1 of the cable. This value is in meter units. |

| MIB Tree   |  | Object name     | swEtherCableDiagPair2Length   |
|--|--|-----------------|---|
|  |  | Object ID       | 1.3.6.1.4.1.171.12.58.1.1.1.9   |
|  |  | Module          | CABLE-DIAG-MIB  |
|  |  | Base syntax     | Integer   |
|  |  | Composed syntax | INTEGER   |
|  |  | Access          | Read-Only   |
|  |  | Status          | Current   |
|  |  | Parent node     | swEtherCableDiagEntry   |
|  |  | First child     | None  |
|  |  | Description     | This object indicates the approx. length or length to the failure of pair 2 of the cable. This value is in meter units. |

| MIB Tree  |  | Object name     | swEtherCableDiagPair3Length   |
|---|--|-----------------|---|
|   |  | Object ID       | 1.3.6.1.4.1.171.12.58.1.1.1.10  |
|   |  | Module          | CABLE-DIAG-MIB  |
|  |  | Base syntax     | Integer   |
|   |  | Composed syntax | INTEGER   |
|   |  | Access          | Read-Only   |
|   |  | Status          | Current   |
|   |  | Parent node     | swEtherCableDiagEntry   |
|   |  | First child     | None  |
|   |  | Description     | This object indicates the approx. length or length to the failure of pair 3 of the cable. This value is in meter units. |

| MIB Tree                    |  |                 |   |
|-----------------------------|--|-----------------|---|
| iso                         |  | Object name     | swEtherCableDiagPair4Length   |
| swCableDiagMIB              |  | Object ID       | 1.3.6.1.4.1.171.12.58.1.1.1.11  |
| swCableDiagCtrl             |  | Module          | CABLE-DIAG-MIB  |
| swEtherCableDiagTable       |  | Base syntax     | Integer   |
| swEtherCableDiagEntry       |  | Composed syntax | INTEGER   |
| swEtherCableDiagPortIndex   |  | Access          | Read-Only   |
| swEtherCableDiagPortType    |  | Status          | Current   |
| swEtherCableDiagLinkStatus  |  |                 |   |
| swEtherCableDiagPair1Status |  |                 |   |
| swEtherCableDiagPair2Status |  |                 |   |
| swEtherCableDiagPair3Status |  |                 |   |
| swEtherCableDiagPair4Status |  |                 |   |
| swEtherCableDiagPair1Length |  |                 |   |
| swEtherCableDiagPair2Length |  |                 |   |
| swEtherCableDiagPair3Length |  |                 |   |
| swEtherCableDiagPair4Length |  |                 |   |
| swEtherCableDiagAction      |  |                 |   |
| swEtherCableDiagStatus      |  |                 |   |
|                             |  | Parent node     | swEtherCableDiagEntry   |
|                             |  | First child     | None  |
|                             |  | Description     | This object indicates the approx. length or length to the failure of pair 4 of the cable. This value is in meter units. |

| MIB Tree                    |  |                 |  |
|-----------------------------|--|-----------------|--|
| iso                         |  | Object name     | swEtherCableDiagAction                                 |
| swCableDiagMIB              |  | Object ID       | 1.3.6.1.4.1.171.12.58.1.1.1.12                         |
| swCableDiagCtrl             |  | Module          | CABLE-DIAG-MIB   |
| swEtherCableDiagTable       |  | Base syntax     | Integer  |
| swEtherCableDiagEntry       |  | Composed syntax | INTEGER  |
| swEtherCableDiagPortIndex   |  | Access          | Read-Write   |
| swEtherCableDiagPortType    |  | Status          | Current  |
| swEtherCableDiagLinkStatus  |  | Value list      | 1 : action(1)<br>2 : processing(2)<br>3 : other(3)     |
| swEtherCableDiagPair1Status |  |                 |  |
| swEtherCableDiagPair2Status |  |                 |  |
| swEtherCableDiagPair3Status |  |                 |  |
| swEtherCableDiagPair4Status |  |                 |  |
| swEtherCableDiagPair1Length |  |                 |  |
| swEtherCableDiagPair2Length |  |                 |  |
| swEtherCableDiagPair3Length |  |                 |  |
| swEtherCableDiagPair4Length |  |                 |  |
| swEtherCableDiagAction      |  |                 |  |
| swEtherCableDiagStatus      |  |                 |  |
|                             |  | Parent node     | swEtherCableDiagEntry                                  |
|                             |  | First child     | None   |
|                             |  | Description     | Function to run the cable diagnostic on selected port. |