

Connector and Cable Diagrams (Pinout Charts)



These pinout charts provide wire color and connector pin numbers for

- [Crossover Cable Pinouts](#)
- [Circuit Pack and Auxiliary Equipment Leads \(Pinout Charts\)](#), includes 2- and 4-wire analog and digital lines, 8, 16, and 24 ports; hybrid line; AUX and CO trunk.
- [Circuit Pack and Auxiliary Equipment Leads \(Pinout Charts\)](#), includes 3-wire CO trunk, DID/DIOD trunk, tie and DS1 tie trunk, 2- and 4-wire ISDN-BRI lines, packet data line, and 4-port DIOD.
- [Lead and Color Designations](#)
- [TN2185B ISDN-BRI 4-wire S Interface](#)
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- [TN799DP C-LAN Pinouts](#)
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Crossover Cable Pinouts

An Ethernet CAT5 cable that is used to directly connect a laptop to the Avaya™ S8700 Media Server's services port must have the following pinouts:

| Pin to media server's services Ethernet port | Pin to laptop's Ethernet card |
|---|--------------------------------------|
| 8 | 8 |
| 7 | 7 |
| 6 | 2 |
| 5 | 5 |
| 4 | 4 |
| 3 | 1 |
| 2 | 6 |
| 1 | 3 |

Circuit Pack and Auxiliary Equipment Leads (Pinout Charts)

| Color | Connector Pin Nos | Analog Line (8) | Digital Line & Analog Line (16) 2-wire | Data Line & Digital Line 4-wire | Digital Line & Analog Line (24) 2-wire | Hybrid Line | MET Line | AUX Trunk | CO Trunk |
|-------|-------------------|-----------------|--|---------------------------------|--|-------------|----------|-----------|----------|
| W-BL | 26 | T1 | T1 | | T1 | V1T1 | T1 | T1 | T1 |
| BL-W | 01 | R1 | R1 | | R1 | V1R1 | R1 | R1 | R1 |
| W-O | 27 | | T2 | TXT1 | T2 | CT1 | TXT1 | SZ1 | |
| O-W | 02 | | R2 | TXR1 | R2 | CR1 | TXR1 | SZ11 | |
| W-G | 28 | | T3 | PXT1 | T3 | P-1 | PXT1 | S1 | |
| G-W | 03 | | R3 | PXR1 | R3 | P+1 | PXR1 | S11 | |
| W-BR | 29 | T2 | T4 | | T4 | V1T2 | T2 | T2 | T2 |
| BR-W | 04 | R2 | R4 | | R4 | V1R2 | R2 | R2 | R2 |
| W-S | 30 | | | TXT2 | T5 | CT2 | TXT2 | SZ2 | |
| S-W | 05 | | | TXR2 | R5 | CR2 | TXR2 | SZ12 | |
| R-BL | 31 | | | PXT2 | T6 | P-2 | PXT2 | S2 | |
| BL-R | 06 | | | PXR2 | R6 | P+2 | PXR2 | S12 | |
| R-O | 32 | T3 | | | T7 | V1T3 | T3 | T3 | T3 |
| O-R | 07 | R3 | | | R7 | V1R3 | R3 | R3 | R3 |
| R-G | 33 | | | TXT3 | T8 | CT3 | TXT3 | SZ3 | |
| G-R | 08 | | | TXR3 | R8 | CR3 | TXR3 | SZ13 | |
| R-BR | 34 | | T5 | PXT3 | T9 | P-3 | PXT3 | S3 | |
| BR-R | 09 | | R5 | PXR3 | R9 | P+3 | PXR3 | S13 | |
| R-S | 35 | T4 | T6 | | T10 | V1T4 | T4 | T4 | T4 |
| S-R | 10 | R4 | R6 | | R10 | V1R4 | R4 | R4 | R4 |
| BK-BL | 36 | | T7 | TXT4 | T11 | CT4 | TXT4 | SZ4 | |
| BL-BK | 11 | | R7 | TXR4 | R11 | CR4 | TXR4 | SZ14 | |
| BK-O | 37 | | T8 | PXT4 | T12 | P-4 | PXT4 | S4 | |
| O-BK | 12 | | R8 | PXR4 | R12 | P+4 | PXR4 | S14 | |
| BK-G | 38 | T5 | T9 | | T13 | V1T5 | | | T5 |
| G-BK | 13 | R5 | R9 | | R13 | V1R5 | | | R5 |

Job Aid

| Color | Connector Pin Nos | Analog Line (8) | Digital Line & Analog Line (16) 2-wire | Data Line & Digital Line 4-wire | Digital Line & Analog Line (24) 2-wire | Hybrid Line | MET Line | AUX Trunk | CO Trunk |
|-------|-------------------|-----------------|--|---------------------------------|--|-------------|----------|-----------|----------|
| BK-BR | 39 | | T10 | TXT5 | T14 | CT4 | | | |
| BR-BK | 14 | | R10 | TXR5 | R14 | CR4 | | | |
| BK-S | 40 | | T11 | PXT5 | T15 | P-5 | | | |
| S-BK | 15 | | R11 | PXR5 | R15 | P+5 | | | |
| Y-BL | 41 | T6 | T12 | | T16 | V1T6 | | | T6 |
| BL-Y | 16 | R6 | R12 | | R16 | V1R6 | | | R6 |
| Y-O | 42 | | | TXT6 | T17 | CT6 | | | |
| O-Y | 17 | | | TXR6 | R17 | CR6 | | | |
| Y-G | 43 | | | PXT6 | T18 | P-6 | | | |
| G-Y | 18 | | | PXR6 | R18 | P+6 | | | |
| Y-BR | 44 | T7 | | | T19 | V1T7 | | | T7 |
| BR-Y | 19 | R7 | | | R19 | V1R7 | | | R7 |
| Y-S | 45 | | | TXT7 | T20 | CT7 | | | |
| S-Y | 20 | | | TXR7 | R20 | CR7 | | | |
| V-BL | 46 | | T13 | PXT7 | T21 | P-7 | | | |
| BL-V | 21 | | R13 | PXR7 | R21 | P+7 | | | |
| V-O | 47 | T8 | T14 | | T22 | V1T8 | | | T8 |
| O-V | 22 | R8 | R14 | | R22 | V1R8 | | | R8 |
| V-G | 48 | | T15 | TXT8 | T23 | CT8 | | | |
| G-V | 23 | | R15 | TXR8 | R23 | CR8 | | | |
| V-BR | 49 | | T16 | PXT8 | T24 | P-8 | | | |
| BR-V | 24 | | R16 | PXR8 | R24 | P+8 | | | |
| V-S | 50 | | | | | | | | |
| S-V | 25 | | | | | | | | |

The wire colors in this chart apply only to B25A and A25B cables. H600-307 cable colors are not shown.

The following wire colors apply to this chart:

| | | | |
|----|--------|----|--------------|
| W | White | S | Slate (Grey) |
| BL | Blue | R | Red |
| O | Orange | BK | Black |
| G | Green | Y | Yellow |
| BR | Brown | V | Violet |

The following abbreviations apply for all circuit packs unless otherwise noted:

| | | | | | |
|---------|---------------------|---------|-------------------|--------------|-------|
| T,R | PBX transmit voice | T | Tip | (A) | Green |
| T1,R1 | PBX receive voice | R | Ring | (B) | Red |
| M | PBX transmit signal | S | Sleeve | | |
| E | PBX receive signal | | PX | PBX transmit | |
| TX | Terminal transmit | | | | |
| LI, LI* | Digital Trunk IN | LO, LO* | Digital Trunk OUT | | |

Circuit Pack and Auxiliary Equipment Leads (Pinout Charts)

| Color | Connector Pin Nos | CO Trunk 3-wire | DID/ DIOD Trunk | Tie Trunk | DS1 Tie Trunk | ISDN BRI Line 4-wire | ISDN BRI Line 2-wire | Packet Data Line | 4 Port DIOD |
|-------|-------------------|-----------------|-----------------|-----------|---------------|----------------------|----------------------|------------------|-------------|
| W-BL | 26 | A1 | T1 | T1 | | PXR1 | T1 | TXT1 | T1 |
| BL-W | 01 | B1 | R1 | R1 | | PXT1 | R1 | TXR1 | R1 |
| W-O | 27 | | | T11 | | TXT1 | T2 | PXT1 | |
| O-W | 02 | | | R11 | | TXR1 | R2 | PXR1 | |
| W-G | 28 | | | E1 | | PXR2 | T3 | TXT2 | |
| G-W | 03 | C1 | | M1 | | PXT2 | R3 | TXR2 | |
| W-BR | 29 | A2 | T2 | T2 | | TXT2 | T4 | PXT2 | T2 |
| BR-W | 04 | B2 | R2 | R2 | | TXR2 | R4 | PXR2 | R2 |
| W-S | 30 | | | T12 | | PXR3 | T5 | TXT3 | |
| S-W | 05 | | | R12 | | PXT3 | R5 | TXR3 | |
| R-BL | 31 | | | E2 | | TXT3 | T6 | PXT3 | |
| BL-R | 06 | C2 | | M2 | | TXR3 | R6 | PXR3 | |
| R-O | 32 | A3 | T3 | T3 | | PXR4 | T7 | TXT4 | T3 |
| O-R | 07 | B3 | R3 | R3 | | PXT4 | R7 | TXR4 | R3 |
| R-G | 33 | | | T13 | | TXT4 | T8 | PXT4 | |
| G-R | 08 | | | R13 | | TXR4 | R8 | PXR4 | |
| R-BR | 34 | | | E3 | | PXR5 | T9 | TXT5 | |
| BR-R | 09 | C3 | | M3 | | PXT5 | R9 | TXR5 | |
| R-S | 35 | A4 | T4 | T4 | | TXT5 | T10 | PXT5 | T4 |
| S-R | 10 | B4 | R4 | R4 | | TXR5 | R10 | PXR5 | R4 |
| BK-BL | 36 | | | T14 | | PXR6 | T11 | TXT6 | |
| BL-BK | 11 | | | R14 | | PXT6 | R11 | TXR6 | |
| BK-O | 37 | | | E4 | | TXT6 | T12 | PXT6 | |
| O-BK | 12 | | | M4 | | TXR6 | R12 | PXR6 | |
| BK-G | 38 | | T5 | | | PXR7 | | TXT7 | |
| G-BK | 13 | | R5 | | | PXT7 | | TXR7 | |
| BK-BR | 39 | | | | | TXT7 | | PXT7 | |

| Color | Connector Pin Nos | CO Trunk 3-wire | DID/ DIOD Trunk | Tie Trunk | DS1 Tie Trunk | ISDN BRI Line 4-wire | ISDN BRI Line 2-wire | Packet Data Line | 4 Port DIOD |
|-------|-------------------|-----------------|-----------------|-----------|---------------|----------------------|----------------------|------------------|-------------|
| BR-BK | 14 | | | | | TXR7 | | PXR7 | |
| BK-S | 40 | | | | | PXR8 | | TXT8 | |
| S-BK | 15 | | | | | PXT8 | | TXR8 | |
| Y-BL | 41 | | T6 | | | TXT8 | | PXT8 | |
| BL-Y | 16 | | R6 | | | TXR8 | | PXR8 | |
| Y-O | 42 | | | | | PXR9 | | TXT9 | |
| O-Y | 17 | | | | | PXT9 | | TXR9 | |
| Y-G | 43 | | | | | TXT9 | | PXT9 | |
| G-Y | 18 | | | | | TXR9 | | PXR9 | |
| Y-BR | 44 | | T7 | | | PXR10 | | TXT10 | |
| BR-Y | 19 | | R7 | | | PXT10 | | TXR10 | |
| Y-S | 45 | | | | | TXT10 | | PXT10 | |
| S-Y | 20 | | | | | TXR10 | | PXR10 | |
| V-BL | 46 | | | | | PXR11 | | TXT11 | |
| BL-V | 21 | | | | | PXT11 | | TXR11 | |
| V-O | 47 | | T8 | | LI* | TXT11 | | PXT11 | |
| O-V | 22 | | R8 | | LI | TXR11 | | PXR11 | |
| V-G | 48 | | | | LO | PXR12 | | TXT12 | |
| G-V | 23 | | | | LO* | PXT12 | | TXR12 | |
| V-BR | 49 | | | | LBACK2 | TXT12 | | PXT12 | |
| BR-V | 24 | | | | LBACK1 | TXR12 | | PXR12 | |
| V-S | 50 | | | | | | | | |
| S-V | 25 | | | | | | | | |

The wire colors in this chart apply only to B25A and A25B cables. H600-307 cable colors are not shown.

Job Aid

The following wire colors apply to this chart:

| | | | |
|----|--------|----|--------------|
| W | White | S | Slate (Grey) |
| BL | Blue | R | Red |
| O | Orange | BK | Black |
| G | Green | Y | Yellow |
| BR | Brown | V | Violet |

The following abbreviations apply for all circuit packs unless otherwise noted

| | | | | | |
|---------|---------------------|---------|-------------------|--------------|-------|
| T,R | PBX transmit voice | T | Tip | (A) | Green |
| T1,R1 | PBX receive voice | R | Ring | (B) | Red |
| M | PBX transmit signal | S | Sleeve | | |
| E | PBX receive signal | | PX | PBX transmit | |
| TX | Terminal transmit | | | | |
| LI, LI* | Digital Trunk IN | LO, LO* | Digital Trunk OUT | | |

Lead and Color Designations

| Cross-Connect Pin | Color | Amphenol Pin | Backplane Pin |
|-------------------|-------|--------------|---------------|
| 1 | W-BL | 26 | 102 |
| 2 | BL-W | 01 | 002 |
| 3 | W-O | 27 | 103 |
| 4 | O-W | 02 | 003 |
| 5 | W-G | 28 | 104 |
| 6 | G-W | 03 | 004 |
| 7 | W-BR | 29 | 105 |
| 8 | BR-W | 04 | 005 |
| 9 | W-SL | 30 | 106 |
| 10 | SL-W | 05 | 006 |
| 11 | R-BL | 31 | 107 |
| 12 | BL-R | 06 | 007 |
| 13 | R-O | 32 | 108 |
| 14 | O-R | 07 | 008 |
| 15 | R-G | 33 | 109 |
| 16 | G-R | 08 | 009 |
| 17 | R-BR | 34 | 110 |
| 18 | BR-R | 09 | 010 |
| 19 | R-SL | 35 | 111 |
| 20 | SL-R | 10 | 011 |
| 21 | BK-BL | 36 | 112 |
| 22 | BL-BK | 11 | 012 |
| 23 | BK-O | 37 | 113 |
| 24 | O-BK | 12 | 013 |
| 25 | BK-G | 38 | 302 |
| 26 | G-BK | 13 | 202 |
| 27 | BK-BR | 39 | 303 |
| 28 | BR-BK | 14 | 203 |
| 29 | BK-SL | 40 | 304 |

| Cross-Connect Pin | Color | Amphenol Pin | Backplane Pin |
|--------------------------|--------------|---------------------|----------------------|
| 30 | SL-BK | 15 | 204 |
| 31 | Y-BL | 41 | 305 |
| 32 | BL-Y | 16 | 205 |
| 33 | Y-O | 42 | 306 |
| 34 | O-Y | 17 | 206 |
| 35 | Y-G | 43 | 307 |
| 36 | G-Y | 18 | 207 |
| 37 | Y-BR | 44 | 308 |
| 38 | BR-Y | 19 | 208 |
| 39 | Y-SL | 45 | 309 |
| 40 | SL-Y | 20 | 209 |
| 41 | V-BL | 46 | 310 |
| 42 | BL-V | 21 | 210 |
| 43 | V-O | 47 | 311 |
| 44 | O-V | 22 | 211 |
| 45 | V-G | 48 | 312 |
| 46 | G-V | 23 | 212 |
| 47 | V-BR | 49 | 313 |
| 48 | BR-V | 24 | 213 |
| 49 | V-SL | 50 | 300 |
| 50 | SL-V | 25 | 200 |

TN2185B ISDN-BRI 4-wire S Interface

| Port | Signal | Cross-Connect Pin | Color | Amphenol Pin | Backplane Pin |
|------|--------|-------------------|-------|--------------|---------------|
| 1 | TXT.1 | 1 | W-BL | 26 | 102 |
| | TXR.1 | 2 | BL-W | 01 | 002 |
| | PXT.1 | 3 | W-O | 27 | 103 |
| | PXR.1 | 4 | O-W | 02 | 003 |
| 2 | TXT.2 | 5 | W-G | 28 | 104 |
| | TXR.2 | 6 | G-W | 03 | 004 |
| | PXT.2 | 7 | W-BR | 29 | 105 |
| | PXR.2 | 8 | BR-W | 04 | 005 |
| 3 | TXT.3 | 9 | W-SL | 30 | 106 |
| | TXR.3 | 10 | SL-W | 05 | 006 |
| | PXT.3 | 11 | R-BL | 31 | 107 |
| | PXR.3 | 12 | BL-R | 06 | 007 |
| 4 | TXT.4 | 13 | R-O | 32 | 108 |
| | TXR.4 | 14 | O-R | 07 | 008 |
| | PXT.4 | 15 | R-G | 33 | 109 |
| | PXR.4 | 16 | G-R | 08 | 009 |
| 5 | TXT.5 | 17 | R-BR | 34 | 110 |
| | TXR.5 | 18 | BR-R | 09 | 010 |
| | PXT.5 | 19 | R-SL | 35 | 111 |
| | PXR.5 | 20 | SL-R | 10 | 011 |
| 6 | TXT.6 | 21 | BK-BL | 36 | 112 |
| | TXR.6 | 22 | BL-BK | 11 | 012 |
| | PXT.6 | 23 | BK-O | 37 | 113 |
| | PXR.6 | 24 | O-BK | 12 | 013 |
| 7 | TXT.7 | 25 | BK-G | 38 | 302 |
| | TXR.7 | 26 | G-BK | 13 | 202 |
| | PXT.7 | 27 | BK-BR | 39 | 303 |
| | PXR.7 | 28 | BR-BK | 14 | 203 |

| Port | Signal | Cross-Connect Pin | Color | Amphenol Pin | Backplane Pin |
|------|--------|-------------------|-------|--------------|---------------|
| 8 | TXT.8 | 29 | BK-SL | 40 | 304 |
| | TXR.8 | 30 | SL-BK | 15 | 204 |
| | PXT.8 | 31 | Y-BL | 41 | 305 |
| | PXR.8 | 32 | BL-Y | 16 | 205 |

TN2198 ISDN-BRI 2-wire U Interface

| Port | Signal | Cross-Connect Pin | Color | Amphenol Pin | Backplane Pin |
|------|--------|-------------------|-------|--------------|---------------|
| 1 | T.1 | 1 | W-BL | 26 | 102 |
| | R.1 | 2 | BL-W | 01 | 002 |
| 2 | T.2 | 3 | W-O | 27 | 103 |
| | R.2 | 4 | O-W | 02 | 003 |
| 3 | T.3 | 5 | W-G | 28 | 104 |
| | R.3 | 6 | G-W | 03 | 004 |
| 4 | T.4 | 7 | W-BR | 29 | 105 |
| | R.4 | 8 | BR-W | 04 | 005 |
| 5 | T.5 | 9 | W-SL | 30 | 106 |
| | R.5 | 10 | SL-W | 05 | 006 |
| 6 | T.6 | 11 | R-BL | 31 | 107 |
| | R.6 | 12 | BL-R | 06 | 007 |
| 7 | T.7 | 13 | R-O | 32 | 108 |
| | R.7 | 14 | O-R | 07 | 008 |
| 8 | T.8 | 15 | R-G | 33 | 109 |
| | R.8 | 16 | G-R | 08 | 009 |
| 9 | T.9 | 17 | R-BR | 34 | 110 |
| | R.9 | 18 | BR-R | 09 | 010 |
| 10 | T.10 | 19 | R-SL | 35 | 111 |
| | R.10 | 20 | SL-R | 10 | 011 |
| 11 | T.11 | 21 | BK-BL | 36 | 112 |
| | R.11 | 22 | BL-BK | 11 | 012 |
| 12 | T.12 | 23 | BK-O | 37 | 113 |
| | R.12 | 24 | O-BK | 12 | 013 |

* Pins 25 and 50 are grounded by the backplane.

TN793B 24-Port Analog Line circuit pack

| Port | Signal | Cross-Connect Pin | Color | Amphenol Pin | Backplane Pin |
|------|--------|-------------------|-------|--------------|---------------|
| 1 | T.1 | 1 | W-BL | 26 | 102 |
| | R.1 | 2 | BL-W | 01 | 002 |
| 2 | T.2 | 3 | W-O | 27 | 103 |
| | R.2 | 4 | O-W | 02 | 003 |
| 3 | T.3 | 5 | W-G | 28 | 104 |
| | R.3 | 6 | G-W | 03 | 004 |
| 4 | T.4 | 7 | W-BR | 29 | 105 |
| | R.4 | 8 | BR-W | 04 | 005 |
| 5 | T.5 | 9 | W-SL | 30 | 106 |
| | R.5 | 10 | SL-W | 05 | 006 |
| 6 | T.6 | 11 | R-BL | 31 | 107 |
| | R.6 | 12 | BL-R | 06 | 007 |
| 7 | T.7 | 13 | R-O | 32 | 108 |
| | R.7 | 14 | O-R | 07 | 008 |
| 8 | T.8 | 15 | R-G | 33 | 109 |
| | R.8 | 16 | G-R | 08 | 009 |
| 9 | T.9 | 17 | R-BR | 34 | 110 |
| | R.9 | 18 | BR-R | 09 | 010 |
| 10 | T.10 | 19 | R-SL | 35 | 111 |
| | R.10 | 20 | SL-R | 10 | 011 |
| 11 | T.11 | 21 | BK-BL | 36 | 112 |
| | R.11 | 22 | BL-BK | 11 | 012 |
| 12 | T.12 | 23 | BK-O | 37 | 113 |
| | R.12 | 24 | O-BK | 12 | 013 |
| 13 | T.13 | 25 | BK-G | 38 | 302 |
| | R.13 | 26 | G-BK | 13 | 202 |

| Port | Signal | Cross-Connect Pin | Color | Amphenol Pin | Backplane Pin |
|------|--------|-------------------|-----------|--------------|---------------|
| 14 | T.14 | 27 | BK-B R | 39 | 303 |
| | R.14 | 28 | BR-B K | 14 | 203 |
| 15 | T.15 | 29 | BK-SL | 40 | 304 |
| | R.15 | 30 | SL-BK | 15 | 204 |
| 16 | T.16 | 31 | Y-BL | 41 | 305 |
| | R.16 | 32 | BL-Y | 16 | 205 |
| 17 | T.17 | 33 | Y-O | 42 | 306 |
| | R.17 | 34 | O-Y | 17 | 206 |
| 18 | T.18 | 35 | Y-G | 43 | 307 |
| | R.18 | 36 | G-Y | 18 | 207 |
| 19 | T.19 | 37 | Y-BR | 44 | 308 |
| | R.19 | 38 | BR-Y | 19 | 208 |
| 20 | T.20 | 39 | Y-SL | 45 | 309 |
| | R.20 | 40 | SL-Y | 20 | 209 |
| 21 | T.21 | 41 | V-BL | 46 | 310 |
| | R.21 | 42 | BL-V | 21 | 210 |
| 22 | T.22 | 43 | V-O | 47 | 311 |
| | R.22 | 44 | O-V | 22 | 211 |
| 23 | T.23 | 45 | V-G | 48 | 312 |
| | R.23 | 46 | G-V | 23 | 212 |
| 24 | T.24 | 47 | V-BR | 49 | 313 |
| | R.24 | 48 | BR-V | 24 | 213 |

DS1 Interface Cable Pinouts

H600-307 cable pinout

| 50-Pin | | | 15-Pin | | |
|--------|-------|-------------|--------|-------|-------------|
| Pin | Color | Designation | Pin | Color | Designation |
| 02 | W-BL | | | | |
| 03 | BL-W | | | | |
| 47 | W-G | LI (High) | 11 | W-G | LI (High) |
| 22 | G-W | LI | 03 | G-W | LI |
| 48 | W-BR | LO | 09 | W-BR | LO |
| 23 | BR-W | LO (High) | 01 | BR | LO (High) |
| 49 | W-SL | LOOP2 | 06 | W-SL | LOOP2 |
| 24 | SL-W | LOOP1 | 05 | SL-W | LOOP1 |

All other pins empty.

C6F cable pinout

| Wire Color | Lead Designation | Pin Number |
|-------------|------------------|------------|
| White/Green | LI* (High Side) | 47 |
| Green | LI | 22 |
| White/Brown | LO | 48 |
| Brown | LO* (High Side) | 23 |
| White/Slate | LBACK2 | 49 |
| Slate | LBACK1 | 24 |

Port Circuit Pack and Telephone Pin Designations

| Pin on Modular Plug | 4-wire: 8400-Series, 606A1 | 2-wire: 302D, 8400-Series, 603E | 8510T BRI (with adjunct speaker phone) | Analog Station, Modem | NT1 |
|---------------------|-------------------------------------|--|--|-------------------------------------|---------------------------|
| 1 | TXT | | | | |
| 2 | TXR | | | T | |
| 3 | PXT | | TXT | R | |
| 4 | | T | PXR | | T |
| 5 | | R | PXT | No Connection 4-pin modular jack | R |
| 6 | PXR | | TXR | | |
| 7 | -48VDC | (-48VDC) | (-48VDC) | | -48VDC |
| 8 | GRD | GRD | GRD | | GRD |
| Circuit Pack | TN754 4-wire digital (8 port) | TN2181 2-wire digital (16 port) TN2224 2-wire digital (24 port) | TN556 ISDN-BRI Line | TN2183 Analog line (16 port) | TN2198 2-wire BRI line |

PX PBX transmit
TX Terminal transmit

T Tip (A)
R Ring (B)

**Auxiliary Lead Appearances at AUX Connector
(MCC1 and SCC1 media gateways only)**

| Color ¹ | Pinouts | Output | Power |
|--------------------|----------|--------------------|-------|
| W-BL BL-W | 26 1 | Major ² | |
| W-O O-W | 27 2 | Minor* | |
| W-G G-W | 28 3 | GRD | |
| W-BR BR-W | 29 4 | GRD | |
| W-S S-W | 30 5 | GRD | |
| R-BL BL-R | 31 6 | GRD | |
| R-O O-R | 32 7 | GRD | |
| R-G G-R | 33 8 | Not Connected | |
| R-BR BR-R | 34 9 | Not Connected | |
| R-S S-R | 35 10 | Not Connected | |

| Color ¹ | Pinouts | Output | Power | |
|--------------------|----------|-----------------------------------|--------------------------------------|-----------|
| BK-BL BL-BK | 36 11 | -48 GND | Emergency Transfer Relay Power | |
| BK-O O-BK | 37 12 | -48 GND | | |
| BK-G G-BK | 38 13 | -48 GND | | |
| BK-BR BR-BK | 39 14 | -48 GND | | |
| BK-S S-BK | 40 15 | -48 GND | | |
| Y-BL BL-Y | 41 16 | -48 GND | | |
| Y-O O-Y | 42 17 | -48 GND | | |
| Y-G G-Y | 43 18 | Not Connected | | |
| Y-BR BR-Y | 44 19 | GND -48 | | AUX Power |
| Y-S S-Y | 45 20 | GND -48 | | |
| V-BL BL-V | 46 21 | GND -48 | | |
| V-O O-V | 47 22 | Not Connected | | |
| V-G G-V | 48 23 | Ext Alarm A** Ext Alarm Return | | |
| V-BR BR-V | 49 24 | Not Connected | | |
| V-S S-V | 50 25 | INADS Tip INADS Ring | | |

- Color designation is the main wire color and the color of the stripe on the wire. The following wire colors apply:
W White; BL Blue; O Orange; G Green; BR Brown
S Slate (Grey); R Red; BK Black; Y Yellow; V Violet
- *External alarm with signal incoming to media server.
**External alarm with signal outgoing from media server.

External Alarm Connector Pinout

| Pin | Designation | Definition |
|-----|-------------|--------------------------------------|
| 26 | Not Used | |
| 1 | Not Used | |
| 27 | Not Used | |
| 2 | Not Used | |
| 28 | Not Used | |
| 3 | Not Used | |
| 29 | Not Used | |
| 4 | Not Used | |
| 30 | Not Used | |
| 5 | Not Used | |
| 31 | Not Used | |
| 6 | Not Used | |
| 32 | Not Used | |
| 7 | Not Used | |
| 33 | RFA2 + | Rectifier Failure (positive) |
| 8 | RFA2 - | Rectifier Failure (negative) |
| 34 | ACF2 + | AC Failure (positive) |
| 9 | ACF2 - | AC Failure (negative) |
| 35 | BIF2 + | Battery Interface Failure (positive) |
| 10 | BIF2 - | Battery Interface Failure (negative) |
| 36 | BOD2 + | Battery On Discharge (positive) |
| 11 | BOD2 - | Battery On Discharge (negative) |
| 37 | Not Used | |
| 12 | RXD | Receive Data |
| 38 | TXD | Transmit Data |
| 13 | DTR | Data Terminal Ready |
| 39 | RS-232 GRD | RS-232 Ground |
| 14 | DSR | Data Set Ready |

| Pin | Designation | Definition |
|------------|--------------------|-------------------|
| 40 | RTS | Request To Send |
| 15 | Not Used | |
| 41 | Not Used | |
| 16 | Not Used | |
| 42 | Not Used | |
| 17 | Not Used | |
| 43 | Not Used | |
| 18 | Not Used | |
| 44 | Not Used | |
| 19 | Not Used | |
| 45 | Not Used | |
| 20 | Not Used | |
| 46 | Not Used | |
| 21 | Not Used | |
| 47 | Not Used | |
| 22 | Not Used | |
| 48 | Not Used | |
| 23 | Not Used | |
| 49 | Not Used | |
| 24 | Not Used | |
| 50 | Not Used | |
| 25 | Not Used | |

Emergency Transfer Panel to MDF Pinouts for 25-pair Connector

| | | | |
|----|-------|------|---------------------------|
| 26 | W-BL | TTC1 | Tip-PBX Trunk Circuit 1 |
| 1 | BL-W | RTC1 | Ring-PBX Trunk Circuit 1 |
| 27 | W-O | TTK1 | Tip-CO Trunk Circuit 1 |
| 2 | O-W | RTK1 | Ring-CO Trunk Circuit 1 |
| 28 | W-G | TLC1 | Tip-PBX Line Port 1 |
| 3 | G-W | RLC1 | Ring-PBX Line Port 1 |
| 29 | W-BR | TST1 | Tip-Emergency Terminal 1 |
| 4 | BR-W | RST1 | Ring-Emergency Terminal 1 |
| 30 | W-S | TTC2 | Tip-PBX Trunk Circuit 2 |
| 5 | S-W | RTC2 | Ring-PBX Trunk Circuit 2 |
| 31 | R-BL | TTK2 | Tip-CO Trunk Circuit 2 |
| 6 | BL-R | RTK2 | Ring-CO Trunk Circuit 2 |
| 32 | R-O | TLC2 | Tip-PBX Line Port 2 |
| 7 | O-R | RLC2 | Ring-PBX Line Port 2 |
| 33 | R-G | TST2 | Tip-Emergency Terminal 2 |
| 8 | G-R | RST2 | Ring-Emergency Terminal 2 |
| 34 | R-BR | TTC3 | Tip-PBX Trunk Circuit 3 |
| 9 | BR-R | RTC3 | Ring-PBX Trunk Circuit 3 |
| 35 | R-S | TTK3 | Tip-CO Trunk Circuit 3 |
| 10 | S-R | RTK3 | Ring-CO Line Port 3 |
| 36 | BK-BL | TLC3 | Tip-PBX Line Port 3 |
| 11 | BL-BK | RLC3 | Ring-PBX Line Port 3 |
| 37 | BK-O | TST3 | Tip-Emergency Terminal 3 |
| 12 | O-BK | RST3 | Ring-Emergency Terminal 3 |
| 38 | BK-G | TTC4 | Tip-PBX Trunk Circuit 4 |
| 13 | G-BK | RTC4 | Ring-PBX Trunk Circuit 4 |
| 39 | BK-BR | TTK4 | Tip-CO Trunk Circuit 4 |
| 14 | BR-BK | RTK4 | Ring-CO Trunk Circuit 4 |

| | | | |
|----|------|-------|---------------------------|
| 40 | BK-S | TLC4 | Tip-PBX Line Port 4 |
| 15 | S-BK | RLC4 | Ring-PBX Line Port 4 |
| 41 | Y-BL | TST4 | Tip-Emergency Terminal 4 |
| 16 | BL-Y | RST4 | Ring-Emergency Terminal 4 |
| 42 | Y-O | TTC5 | Tip-PBX Trunk Circuit 5 |
| 17 | O-Y | RTC5 | Ring-PBX Trunk Circuit 5 |
| 43 | Y-G | TTK5 | Tip-CO Trunk Circuit 5 |
| 18 | G-Y | RTK5 | Ring-CO Trunk Circuit 5 |
| 44 | Y-BR | TLC5 | Tip-PBX Line Port 5 |
| 19 | BR-Y | RLC5 | Ring-PBX Line Port 5 |
| 45 | Y-S | TST5 | Tip-Emergency Terminal 5 |
| 20 | S-Y | RST5 | Ring-Emergency Terminal 5 |
| 46 | V-BL | COM1 | Common 1 Relay Contact |
| 21 | BL-V | NO1 | Normally Open 1 Contact |
| 47 | V-O | NC2 | Normally Closed 2 Contact |
| 22 | O-V | NC1 | Normally Closed 1 Contact |
| 48 | V-G | COM2 | Common 2 Relay Contact |
| 23 | G-V | NO2 | Normally Open 2 Contact |
| 49 | V-BR | | |
| 24 | BR-V | | |
| 50 | V-S | GRD | Ground from Aux Cable |
| 25 | S-V | -48PX | -48V from AUX Cable |

TN799DP C-LAN Pinouts

| Backplane Pin | 25-Pair Wire Color | Lead Name | Peripheral Connector Pin |
|----------------------|---------------------------|------------------|---------------------------------|
| 103 | White/Orange | TD+ | 27 |
| 003 | Orange/White | TD- | 2 |
| 104 | White/Green | RD+ | 28 |
| 004 | Green/White | RD- | 3 |

Pinouts for the Ethernet adapter for TN799DP C-LAN, TN2302AP IP Media Processor, and TN2501AP VAL

| To RJ45 jack | From 50-pin plug | Function |
|---------------------|-------------------------|-----------------|
| 1 | 32 | TX+ |
| 2 | 7 | TX- |
| 3 | 44 | RX+ |
| 4 | 18 | GND |
| 5 | 43 | GND |
| 6 | 19 | RX- |
| 7 | 45 | GND |
| 8 | 20 | GND |

TN2312AP IP Server Interface Adapter Pinouts

| To RJ45 jack | From 50-pin plug | Function |
|----------------------------------|------------------|-----------|
| 1 | 43 | TX+ |
| 2 | 18 | TX- |
| 3 | 44 | RX+ |
| 6 | 19 | RX- |
| | 39* | FP-NBPSEL |
| | 14* | GND |
| *pins are shorted on 50-pin plug | | |

