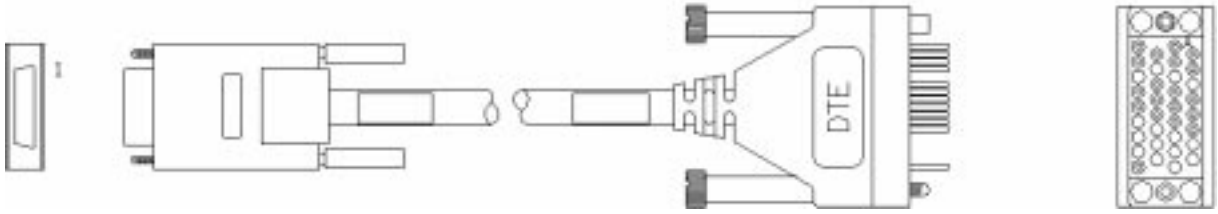
B Custom Cables

This appendix provides detailed information on cables that are used with OmniStack WAN Submodules. Information includes illustrations, descriptions, and pin diagrams. Although these custom cables are available from Alcatel, you can build them using the information contained in this chapter.

V.35 DTE Cable (For OSWSM-to-DCE Device Connection)



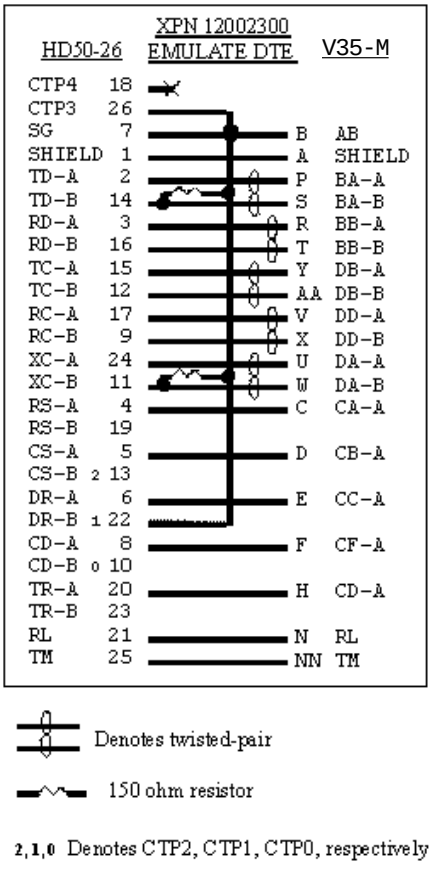
The following parts are recommended for the end of the cable connected to the OSWSM.

- AMP 750833-1 26 Pin HD50 Connector-male
- AMP 750850-6 26 Pin HD50 Backshell

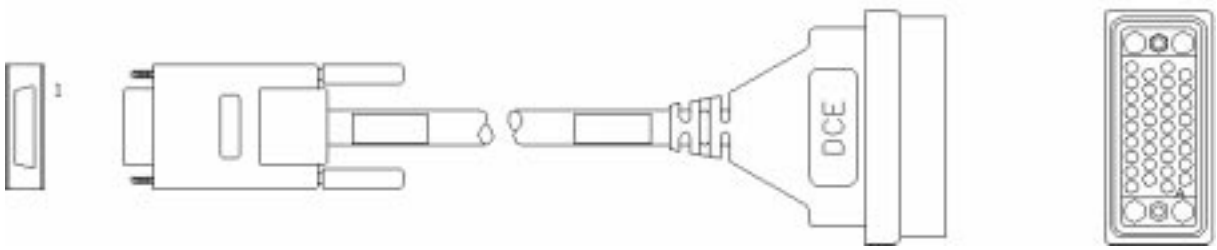
Parts for the customer end of the cable can be of any industry-standard manufacturer. Use of a shielded-type connector is recommended.

Cable should be constructed with datacomm-quality cable that has an overall mylar foil shield and braided-shield, terminated to the appropriate pins and connector shell at each end of the cable. Twisted-pair 28GA cable is preferred, with any of the pairs used for non-paired signals.

The table on the right shows the pinouts for the connectors.



V.35 DCE Cable (For OSWSM-to-DTE Device Connection)



The following parts are recommended for the end of the cable connected to the OSWSM.

- AMP 750833-1 26 Pin HD50 Connector-male
- AMP 750850-6 26 Pin HD50 Backshell

Parts for the customer end of the cable can be of any industry-standard manufacturer. Use of a shielded-type connector is recommended.

Cable should be constructed with datacomm-quality cable that has an overall mylar foil shield and braided-shield, terminated to the appropriate pins and connector shell at each end of the cable. Twisted-pair 28GA cable is preferred, with any of the pairs used for non-paired signals.

The table on the right shows the pinouts for the connectors.

XPN 12005100

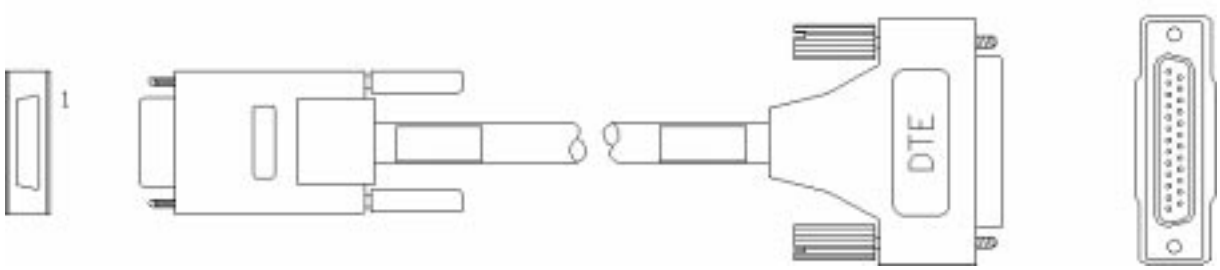
HD50-26		EMULATE DCE	V35-F
CTP4	18		
CTP3	26		
SG	7	B	AB
SHIELD	1	A	SHIELD
TD-A	2	R	BB-A
TD-B	14	T	BB-B
RD-A	3	P	BA-A
RD-B	16	S	BA-B
TC-A	15	Y	DB-A
TC-B	12	AA	DB-B
RC-A	17	U	DA-A
RC-B	9	W	DA-B
XC-A	24	V	DD-A
XC-B	11	X	DD-B
RS-A	4	F	CF-A
RS-B	19		
CS-A	5	D	CB-A
CS-B 2	13		
DR-A	6	H	CD-A
DR-B 1	22		
CD-A	8	C	CA-A
CD-B 0	10		
TR-A	20	E	CC-A
TR-B	23		
RL	21	NN	TM
TM	25	N	RL

Denotes twisted-pair

150 ohm resistor

2,1,0 Denotes CTP2, CTP1, CTP0, respectively

RS232 DTE Cable (For OSWSM-to-DCE Device Connection)



The following parts are recommended for the end of the cable connected to the OSWSM.

- AMP 750833-1 26 Pin HD50 Connector-male
- AMP 750850-6 26 Pin HD50 Backshell

Parts for the customer end of the cable can be of any industry-standard manufacturer. Use of a shielded-type connector is recommended.

Cable should be constructed with data-comm-quality cable that has an overall mylar foil shield and braided-shield, terminated to the appropriate pins and connector shell at each end of the cable. Twisted-pair 28GA cable is preferred, with any of the pairs used for non-paired signals.

The table on the right shows the pinouts for the connectors.

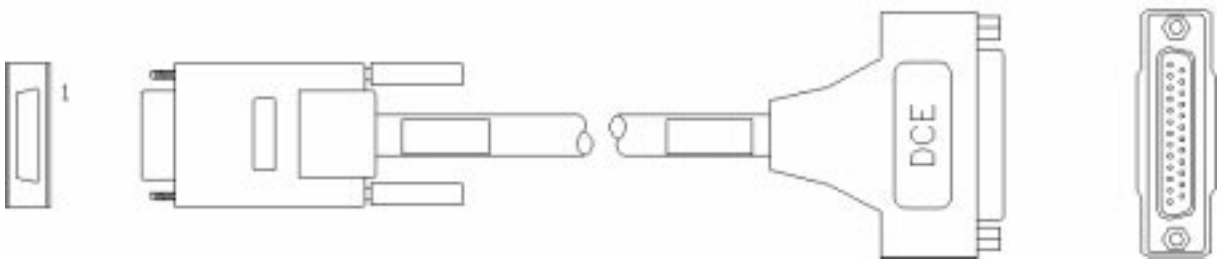
XPN 12002400

HD50-26		EMULATE DTE	DB25-M	
CTP4	18			
CTP3	26			
SG	7		7	AB
SHIELD	1		1	SHIELD
TD-A	2		2	BA-A
TD-B	14			
RD-A	3		3	BB-A
RD-B	16			
TC-A	15		15	DB-A
TC-B	12			
RC-A	17		17	DD-A
RC-B	9			
XT-A	24		24	DA-A
XC-B	11			
RS-A	4		4	CA-A
RS-B	19			
CS-A	5		5	CB-A
CS-B	**2** 13			
DR-A	6		6	CC-A
DR-B	**1** 22			
CD-A	8		8	CF-A
CD-B	**0** 10			
TR-A	20		20	CD-A
TR-B	23			
RL	21		21	RL
TM	25		25	TM

Denotes twisted-pair

2, 1, 0 Denotes CTP2, CTP1, CTP0, respectively

RS232 DCE Cable (For OSWSM-to-DTE Device Connection)



The following parts are recommended for the end of the cable connected to the OSWSM.

- AMP 750833-1 26 Pin HD50 Connector-male
- AMP 750850-6 26 Pin HD50 Backshell

Parts for the customer end of the cable can be of any industry-standard manufacturer. Use of a shielded-type connector is recommended.

Cable should be constructed with datacomm-quality cable that has an overall mylar foil shield and braided-shield, terminated to the appropriate pins and connector shell at each end of the cable. Twisted-pair 28GA cable is preferred, with any of the pairs used for non-paired signals.

The table on the right shows the pinouts for the connectors.

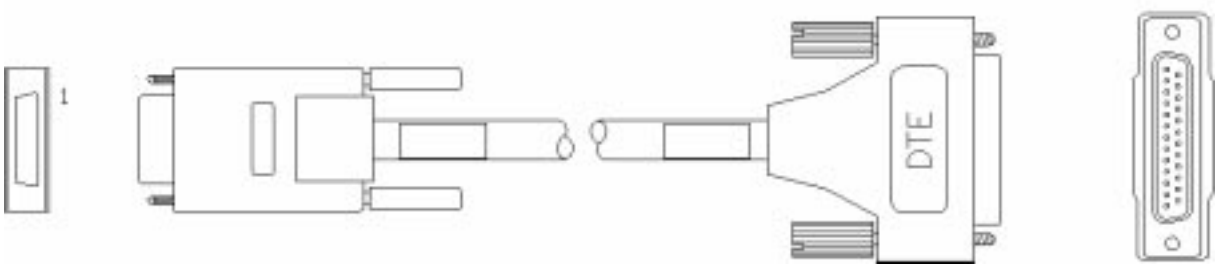
XPN 12005200

HD50-26		EMULATE DCE	DB25-F	
CTP4	18	→		
CTP3	26			
SG	7		7	AB
SHIELD	1		1	SHIELD
TD-A	2		3	BB-A
TD-B	14			
RD-A	3		2	BA-A
RD-B	16			
TC-A	15		15	DB-A
TC-B	12			
RC-A	17		24	DA-A
RC-B	9			
XT-A	24		17	DD-A
XC-B	11			
RS-A	4		8	CF-A
RS-B	19			
CS-A	5		5	CB-A
CS-B	2 13			
DR-A	6		20	CD-A
DR-B	1 22			
CD-A	8		4	CA-A
CD-B	0 10			
TR-A	20		6	CC-A
TR-B	23			
RL	21		25	TM
TM	25		21	RL

Denotes twisted-pair

2, 1, 0 Denotes CTP2, CTP1, CTP0, respectively

RS530 DTE Cable (For OSWSM-to-DCE Device Connection)



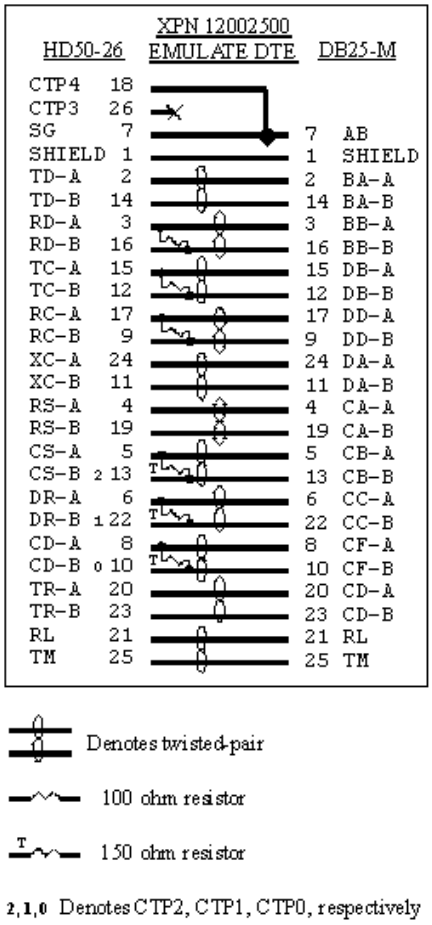
The following parts are recommended for the end of the cable connected to the OSWSM.

- AMP 750833-1 26 Pin HD50 Connector-male
- AMP 750850-6 26 Pin HD50 Backshell

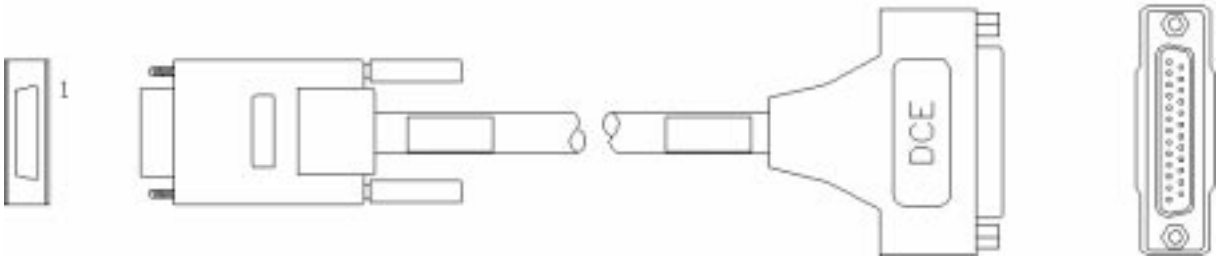
Parts for the customer end of the cable can be of any industry-standard manufacturer. Use of a shielded-type connector is recommended.

Cable should be constructed with data-comm-quality cable that has an overall mylar foil shield and braided-shield, terminated to the appropriate pins and connector shell at each end of the cable. Twisted-pair 28GA cable is preferred, with any of the pairs used for non-paired signals.

The table on the right shows the pinouts for the connectors.



RS530 DCE Cable (For OSWSM-to-DTE Device Connection)



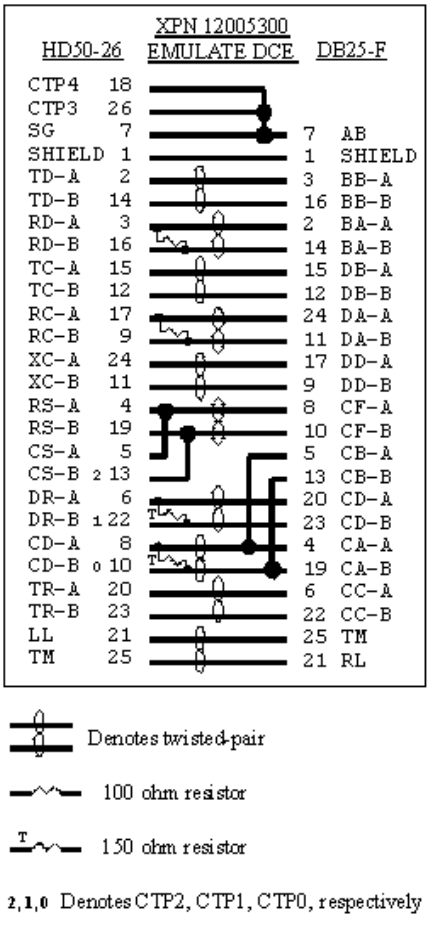
The following parts are recommended for the end of the cable connected to the OSWSM.

- AMP 750833-1 26 Pin HD50 Connector-male
- AMP 750850-6 26 Pin HD50 Backshell

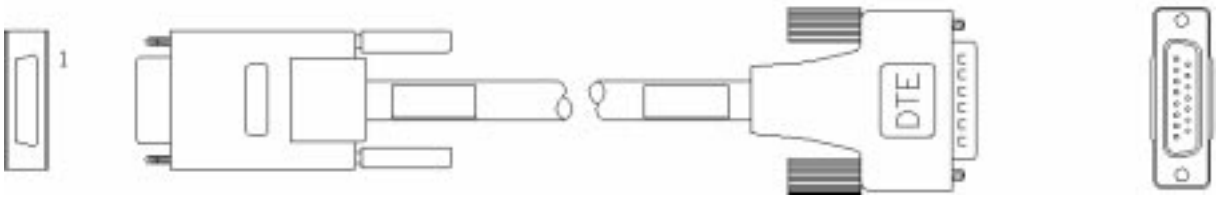
Parts for the customer end of the cable can be of any industry-standard manufacturer. Use of a shielded-type connector is recommended.

Cable should be constructed with datacomm-quality cable that has an overall mylar foil shield and braided-shield, terminated to the appropriate pins and connector shell at each end of the cable. Twisted-pair 28GA cable is preferred, with any of the pairs used for non-paired signals.

The table on the right shows the pinouts for the connectors.



X.21 DTE Cable (For OSWSM-to-DCE Device Connection)



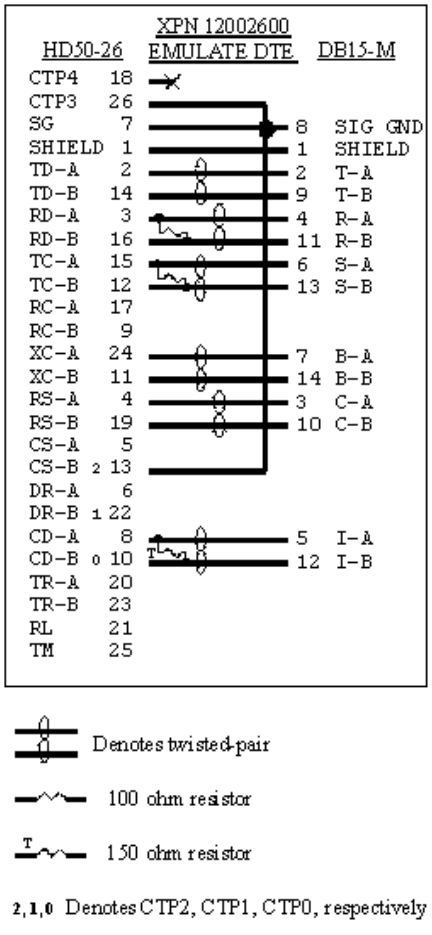
The following parts are recommended for the end of the cable connected to the OSWSM.

- AMP 750833-1 26 Pin HD50 Connector-male
- AMP 750850-6 26 Pin HD50 Backshell

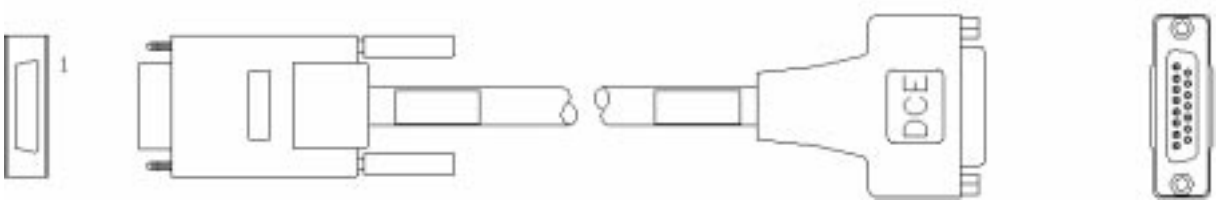
Parts for the customer end of the cable can be of any industry-standard manufacturer. Use of a shielded-type connector is recommended.

Cable should be constructed with data-comm-quality cable that has an overall mylar foil shield and braided-shield, terminated to the appropriate pins and connector shell at each end of the cable. Twisted-pair 28GA cable is preferred, with any of the pairs used for non-paired signals.

The table on the right shows the pinouts for the connectors.



X.21 DCE Cable (For OSWSM-to-DTE Device Connection)



The following parts are recommended for the end of the cable connected to the OSWSM.

- AMP 750833-1 26 Pin HD50 Connector-male
- AMP 750850-6 26 Pin HD50 Backshell

Parts for the customer end of the cable can be of any industry-standard manufacturer. Use of a shielded-type connector is recommended.

Cable should be constructed with data-comm-quality cable that has an overall mylar foil shield and braided-shield, terminated to the appropriate pins and connector shell at each end of the cable. Twisted-pair 28GA cable is preferred, with any of the pairs used for non-paired signals.

The table on the right shows the pinouts for the connectors.

XPN 12005400

HD50-26		EMULATE DCE	DB15-F	
CTP4	18			
CTP3	26			
SG	7		8	SIG GND
SHIELD	1		1	SHIELD
TD-A	2		4	R-A
TD-B	14		11	R-B
RD-A	3		2	T-A
RD-B	16		9	T-B
TC-A	15			
TC-B	12			
RC-A	17		7	B-A
RC-B	9		14	B-B
XT-A	24		6	S-A
XC-B	11		13	S-B
RS-A	4		5	I-A
RS-B	19		12	I-B
CS-A	5			
CS-B	2 13			
DR-A	6			
DR-B	1 22			
CD-A	8		3	C-A
CD-B	0 10		10	C-B
TR-A	20			
TR-B	23			
RL	21			
TM	25			

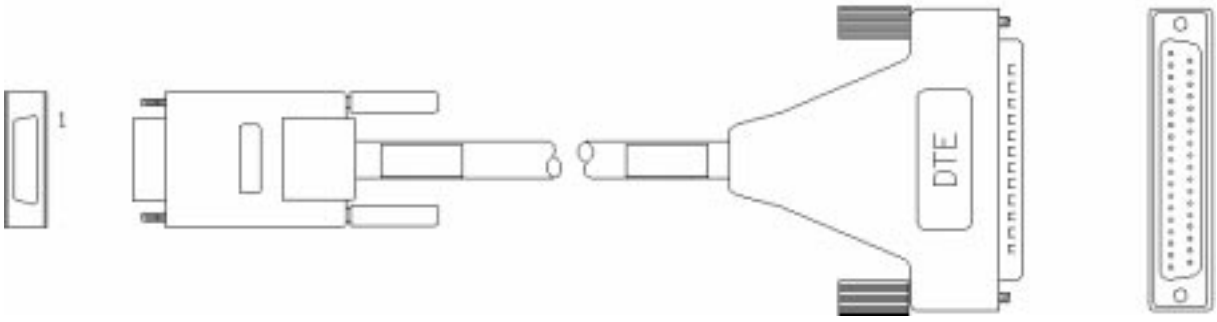
Denotes twisted-pair

100 ohm resistor

150 ohm resistor

2,1,0 Denotes CTP2, CTP1, CTP0, respectively

RS449 DTE Cable (For OSWSM-to-DCE Device Connection)



The following parts are recommended for the end of the cable connected to the OSWSM.

- AMP 750833-1 26 Pin HD50 Connector-male
- AMP 750850-6 26 Pin HD50 Backshell

Parts for the customer end of the cable can be of any industry-standard manufacturer. Use of a shielded-type connector is recommended.

Cable should be constructed with data-comm-quality cable that has an overall mylar foil shield and braided-shield, terminated to the appropriate pins and connector shell at each end of the cable. Twisted-pair 28GA cable is preferred, with any of the pairs used for non-paired signals.

The table on the right shows the pinouts for the connectors.

XPN 12002700

HD50-26	EMULATE DTE	DB37-M
CTP4 18		
CTP3 26		
SG 7		19 AB
SHIELD 1		1 SHIELD
TD-A 2		4 SD-A
TD-B 14		22 SD-B
RD-A 3		6 RD-A
RD-B 16		24 RD-B
TC-A 15		5 ST-A
TC-B 12		23 ST-B
RC-A 17		8 RT-A
RC-B 9		26 RT-B
XT-A 24		17 TT-A
XC-B 11		35 TT-B
RS-A 4		7 RS-A
RS-B 19		25 RS-B
CS-A 5		9 CS-A
CS-B 2 13		27 CS-B
DR-A 6		11 DM-A
DR-B 1 22		29 DM-B
CD-A 8		13 RR-A
CD-B 0 10		31 RR-B
TR-A 20		12 TR-A
TR-B 23		30 TR-B
RL 21		14 RL
TM 25		18 TM

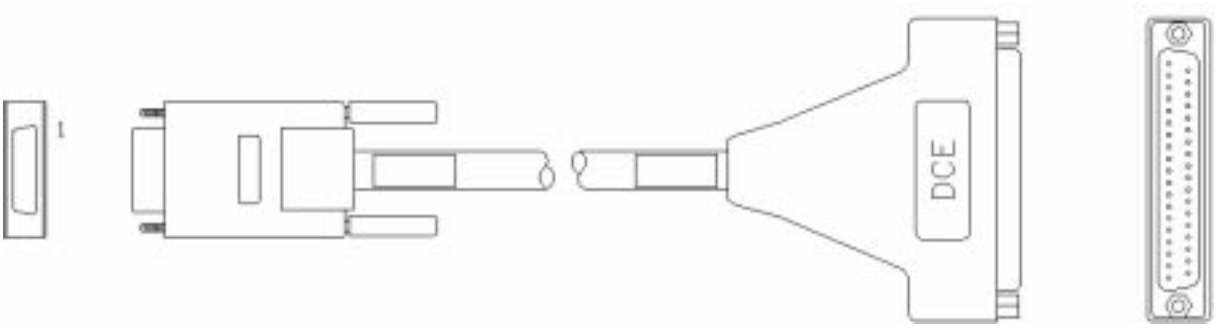
Denotes twisted-pair

100 ohm resistor

150 ohm resistor

2,1,0 Denotes CTP2, CTP1, CTP0, respectively

RS-449 DCE Cable Assembly (For OSWSM-to-DTE Device 75Ω Connection)



The following parts are recommended for the end of the cable connected to the OSWSM.

- AMP 750833-1 26-Pin HD50 Connector-male
- AMP 750850-6 26-Pin HD50 Backshell

Parts for the customer end of the cable can be of any industry-standard manufacturer. Use of a shielded-type connector is recommended.

Cable should be constructed with datacomm-quality cable that has an overall mylar foil shield and braided-shield, terminated to the appropriate pins and connector shell at each end of the cable. Twisted-pair 28GA cable is preferred, with any of the pairs used for non-paired signals.

The table on the right shows the pinouts for the connectors.

XPN 12005500

HD50-26		EMULATE DCE	DB37-F	
CTP4	18			
CTP3	26			
SG	7		19	AB
SHIELD	1		1	SHIELD
TD-A	2		6	RD-A
TD-B	14		24	RD-B
RD-A	3		4	SD-A
RD-B	16		22	SD-B
TC-A	15		5	ST-A
TC-B	12		23	ST-B
RC-A	17		17	TT-A
RC-B	9		35	TT-B
XT-A	24		8	RT-A
XC-B	11		26	RT-B
RS-A	4		13	RR-A
RS-B	19		31	RR-B
CS-A	5		9	CS-A
CS-B	2 13		27	CS-B
DR-A	6	T	12	TR-A
DR-B	1 22		30	TR-B
CD-A	8		7	RS-A
CD-B	0 10	T	25	RS-B
TR-A	20		11	DM-A
TR-B	23		29	DM-B
RL	21		18	TM
TM	25		14	RL

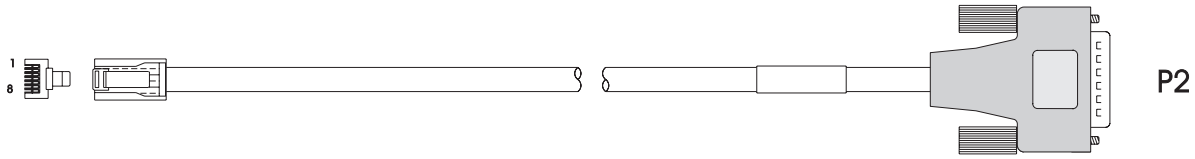
Denotes twisted-pair

100 ohm resistor

T 150 ohm resistor

2,1,0 Denotes CTP2, CTP1, CTP0, respectively

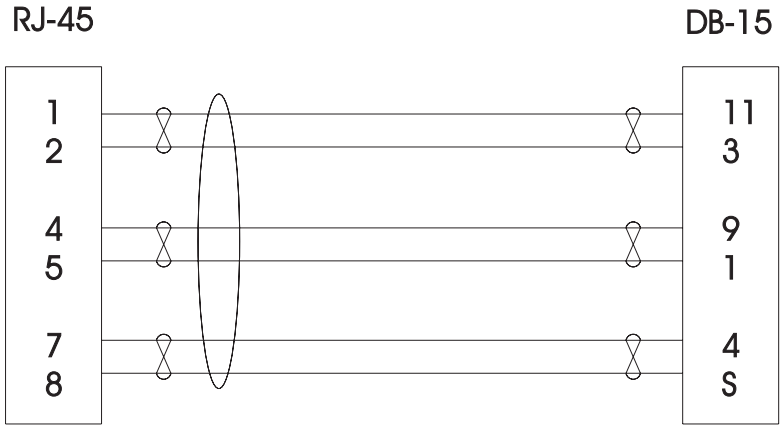
RJ-45 to DB15F Cable Assembly (For T1/E1 Port 120Ω Connections)



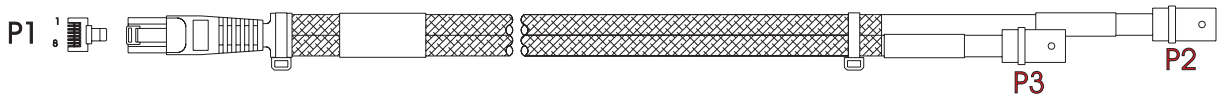
The following parts are recommended for the ends of the cable:

- For the switch side of the cable assembly (P1): 8-conductor RJ-45 round connector (MTP-88U or equivalent)
- Parts for the customer end of the cable (P2) can be of any industry-standard manufacturer. Use of a shielded-type DB-15 female connector is recommended.

  Cable should be constructed with datacomm-quality cable that has an overall mylar foil shield and braided-shield, terminated to the appropriate pins and connector shell at each end of the cable. Twisted-pair 28GA cable is preferred, with any of the pairs used for non-paired signals.



RJ-45 to BNC Cable Assembly (For E1 75Ω Port Connections)



The following parts are recommended for manufacturing the cable:

- For the switch side of the cable assembly (P1): 8-conductor RJ-45 round connector (MTP-88U or equivalent)
- For the cable: RG-187A coaxial cable (Belden 83267 or equivalent)
- For the customer end of the cable assembly (P2 and P3): Coaxial BNC connector, 75Ω (Amp 413760-8, or equivalent).

The figure below shows the pinouts for the cable assembly.