

Rexroth
Bosch Group

EDI GUIDE

ORDERS D99B



Who should read this document?

This document is for EDI-administrators who will implement this EDI-guide to be able to send EDIFACT orders to Bosch Rexroth AG.

Explanation of usage:

First of all, the usage of each segment has to be considered, so if a segment is mandatory (M), it has to appear in the data file.

It might happen, that a segment itself is optional (O), but the elements within the segment are declared as mandatory. This means, it is not required that the segment is included, but as soon as the segment is in data file, the mandatory fields must be filled.

The same procedure has to be applied to segment groups and segments: A segment group can be optional, while the contained segments are mandatory. In this case all mandatory segments of a segment group has to appear in the data file, if you decide to use this segment group.

In case that in a segment description is listed more than one segment group, you have to read them from bottom to top. The first segment group is that group which contains the segment. The next segment group above is the segment group which contains the previous segment group.

The request of certain segment groups, segments or fields may differ from the description of ORDERS D99B like it is distributed from the UNECE. We have changed the request of some elements from optional to mandatory as they are important for our processes.

Segment	Content	M/O	Length	Group3	Group2	Group
UNB	Interchange Header	M	1	(once per transmission)		
UNH	Message header	M	1			
BGM	Beginning of message	M	1			
DTM	Date/time/period	M	35			
PAI	Payment instructions	O	1			
ALI	Additional information	O	5			
IMD	Item description	O	999			
FTX	Free text	O	99			
GIR	Related identification numbers	O	10			
Segment group 1		O	9999			1
RFF	Reference	M	1			1
DTM	Date/time/period	O	5			1
Segment group 2		O	99			2
NAD	Name and address	M	1			2
LOC	Place/location identification	O	99			2
FII	Financial institution information	O	5			2
Segment group 3		O	99		3	2
RFF	Reference	M	1		3	2
DTM	Date/time/period	O	5		3	2
Segment group 4		O	5		4	2
DOC	Document/message details	M	1		4	2
DTM	Date/time/period	O	5		4	2
Segment group 5		O	5		5	2
CTA	Contact information	M	1		5	2
COM	Communication contact	O	5		5	2
Segment group 6		O	5			6
TAX	Duty/tax/fee details	M	1			6
MOA	Monetary amount	O	1			6
LOC	Place/location identification	O	9			6
Segment group 7		O	5			7
CUX	Currencies	M	1			7
PCD	Percentage details	O	5			7
DTM	Date/time/period	O	5			7
Segment group 8		O	10			8
PAT	Payment terms basis	M	1			8
DTM	Date/time/period	O	5			8
PCD	Percentage details	O	1			8
Segment group 9		O	9999		9	8
MOA	Monetary amount	M	1		9	8
GIR	Related identification numbers	O	9		9	8
RJL	Accounting journal identification	O	99		9	8
Segment group 10		O	10			10
TDT	Details of transport	M	1			10
Segment group 11		O	10		11	10

LOC	Place/location identification	M	1	11	10
DTM	Date/time/period	O	5	11	10
Segment group 12		O	5		12
TOD	Terms of delivery or transport	M	1		12
LOC	Place/location identification	O	2		12
Segment group 13		O	99		13
PAC	Package	M	1		13
MEA	Measurements	O	5		13
Segment group 14		O	5	14	13
PCI	Package identification	M	1	14	13
RFF	Reference	O	1	14	13
DTM	Date/time/period	O	5	14	13
GIN	Goods identity number	O	10	14	13
Segment group 15		O	10		15
EQD	Equipment details	M	1		15
HAN	Handling instructions	O	5		15
MEA	Measurements	O	5		15
FTX	Free text	O	5		15
Segment group 16		O	10		16
SCC	Scheduling conditions	M	1		16
FTX	Free text	O	5		16
RFF	Reference	O	5		16
Segment group 17		O	10	17	16
QTY	Quantity	M	1	17	16
DTM	Date/time/period	O	5	17	16
Segment group 18		O	25		18
APR	Additional price information	M	1		18
DTM	Date/time/period	O	5		18
RNG	Range details	O	1		18
Segment group 19		O	99		19
ALC	Allowance or charge	M	1		19
ALI	Additional information	O	5		19
DTM	Date/time/period	O	5		19
Segment group 20		O	1	20	19
QTY	Quantity	M	1	20	19
RNG	Range details	O	1	20	19
Segment group 21		O	1	21	19
PCD	Percentage details	M	1	21	19
RNG	Range details	O	1	21	19
Segment group 22		O	2	22	19
MOA	Monetary amount	M	1	22	19
RNG	Range details	O	1	22	19
Segment group 23		O	1	23	19
RTE	Rate details	M	1	23	19
RNG	Range details	O	1	23	19
Segment group 24		O	5	24	19
TAX	Duty/tax/fee details	M	1	24	19
MOA	Monetary amount	O	1	24	19

	Segment group 25	O	999		25
RCS	Requirements and conditions	M	1		25
RFF	Reference	O	5		25
DTM	Date/time/period	O	5		25
FTX	Free text	O	99999		25
	Segment group 26	O	999		26
DGS	Dangerous goods	M	1		26
FTX	Free text	O	5		26
	Segment group 27	O	99	27	26
CTA	Contact information	M	1	27	26
COM	Communication contact	O	5	27	26

LINE ITEM SECTION

	Segment group 28	O	200000		28
LIN	Line item	M	1		28
PIA	Additional product id	O	25		28
IMD	Item description	O	99		28
MEA	Measurements	O	99		28
QTY	Quantity	O	99		28
PCD	Percentage details	O	5		28
ALI	Additional information	O	5		28
DTM	Date/time/period	O	35		28
MOA	Monetary amount	O	10		28
GIS	General indicator	O	99		28
GIN	Goods identity number	O	1000		28
GIR	Related identification numbers	O	1000		28
QVR	Quantity variances	O	1		28
DOC	Document/message details	O	99		28
PAI	Payment instructions	O	1		28
FTX	Free text	O	99		28
	Segment group 29	O	999	29	28
CCI	Characteristic/class id	M	1	29	28
CAV	Characteristic value	O	10	29	28
MEA	Measurements	O	10	29	28
	Segment group 30	O	10	30	28
PAT	Payment terms basis	M	1	30	28
DTM	Date/time/period	O	5	30	28
PCD	Percentage details	O	1	30	28
	Segment group 31	O	9999	31	28
MOA	Monetary amount	M	1	31	28
GIR	Related identification numbers	O	9	31	28
	Segment group 32	O	25	32	28
PRI	Price details	M	1	32	28
CUX	Currencies	O	1	32	28
APR	Additional price information	O	99	32	28
RNG	Range details	O	1	32	28
DTM	Date/time/period	O	5	32	28
	Segment group 33	O	9999	33	28
RFF	Reference	M	1	33	28
DTM	Date/time/period	O	5	33	28
GIS	General indicator	O	99	33	28
MOA	Monetary amount	O	99	33	28

	Segment group 34	O	99		34	28
PAC	Package	M	1		34	28
MEA	Measurements	O	5		34	28
QTY	Quantity	O	5		34	28
DTM	Date/time/period	O	5		34	28
					34	28
	Segment group 35	O	1	35	34	28
RFF	Reference	M	1	35	34	28
DTM	Date/time/period	O	5	35	34	28
					34	28
	Segment group 36	O	5	36	34	28
PCI	Package identification	M	1	36	34	28
RFF	Reference	O	1	36	34	28
DTM	Date/time/period	O	5	36	34	28
GIN	Goods identity number	O	10	36	34	28
						28
	Segment group 37	O	9999		37	28
LOC	Place/location identification	M	1		37	28
QTY	Quantity	O	1		37	28
PCD	Percentage details	O	1		37	28
DTM	Date/time/period	O	5		37	28
						28
	Segment group 38	O	10		38	28
TAX	Duty/tax/fee details	M	1		38	28
MOA	Monetary amount	O	1		38	28
LOC	Place/location identification	O	5		38	28
						28
	Segment group 39	O	999		39	28
NAD	Name and address	M	1		39	28
LOC	Place/location identification	O	5		39	28
FII	Financial institution information	O	5		39	28
					39	28
	Segment group 40	O	99	40	39	28
RFF	Reference	M	1	40	39	28
DTM	Date/time/period	O	5	40	39	28
					39	28
	Segment group 41	O	5	41	39	28
DOC	Document/message details	M	1	41	39	28
DTM	Date/time/period	O	5	41	39	28
					39	28
	Segment group 42	O	5	42	39	28
CTA	Contact information	M	1	42	39	28
COM	Communication contact	O	5	42	39	28
						28
	Segment group 43	O	99		43	28
ALC	Allowance or charge	M	1		43	28
ALI	Additional information	O	5		43	28
DTM	Date/time/period	O	5		43	28
					43	28
	Segment group 44	O	1	44	43	28
QTY	Quantity	M	1	44	43	28
RNG	Range details	O	1	44	43	28
					43	28
	Segment group 45	O	1	45	43	28
PCD	Percentage details	M	1	45	43	28
RNG	Range details	O	1	45	43	28
					43	28
	Segment group 46	O	2	46	43	28
MOA	Monetary amount	M	1	46	43	28
RNG	Range details	O	1	46	43	28

					43	28
	Segment group 47	O	1	47	43	28
RTE	Rate details	M	1	47	43	28
RNG	Range details	O	1	47	43	28
					43	28
	Segment group 48	O	5	48	43	28
TAX	Duty/tax/fee details	M	1	48	43	28
MOA	Monetary amount	O	1	48	43	28
						28
	Segment group 49	O	10		49	28
TDT	Details of transport	M	1		49	28
					49	28
	Segment group 50	O	10	50	49	28
LOC	Place/location identification	M	1	50	49	28
DTM	Date/time/period	O	5	50	49	28
						28
	Segment group 51	O	5		51	28
TOD	Terms of delivery or transport	M	1		51	28
LOC	Place/location identification	O	2		51	28
						28
	Segment group 52	O	10		52	28
EQD	Equipment details	M	1		52	28
HAN	Handling instructions	O	5		52	28
MEA	Measurements	O	5		52	28
FTX	Free text	O	5		52	28
						28
	Segment group 53	O	100		53	28
SCC	Scheduling conditions	M	1		53	28
FTX	Free text	O	5		53	28
RFF	Reference	O	5		53	28
					53	28
	Segment group 54	O	10	54	53	28
QTY	Quantity	M	1	54	53	28
DTM	Date/time/period	O	5	54	53	28
						28
	Segment group 55	O	999		55	28
RCS	Requirements and conditions	M	1		55	28
RFF	Reference	O	5		55	28
DTM	Date/time/period	O	5		55	28
FTX	Free text	O	99999		55	28
						28
	Segment group 56	O	10		56	28
STG	Stages	M	1		56	28
					56	28
	Segment group 57	O	3	57	56	28
QTY	Quantity	M	1	57	56	28
MOA	Monetary amount	O	1	57	56	28
						28
	Segment group 58	O	999		58	28
DGS	Dangerous goods	M	1		58	28
FTX	Free text	O	5		58	28
					58	28
	Segment group 59	O	99	59	58	28
CTA	Contact information	M	1	59	58	28
COM	Communication contact	O	5	59	58	28

SUMMARY SECTION

UNS	Section control	M	1			
MOA	Monetary amount	O	99			
CNT	Control total	O	10			

	Segment group 60	O	10		60
ALC	Allowance or charge	M	1		60
ALI	Additional information	O	1		60
MOA	Monetary amount	M	2		60
UNT	Message trailer	M	1		
UNZ	Interchange trailer	M	1	(once per transmission)	



UNB Interchange Header		M	1		
Function To start, identify and specify an interchange					
S001	SYNTAX IDENTIFIER	M	1		
0001	Syntax identifier	M		an..4	UNOC
0002	Syntax version number	M		a..1	1
S002	INTERCHANGE SENDER	M	1		
0004	Sender identification	M		an..35	your sender id
0007	Partner identification	M		an..4	your partner id
0008	Adress for reverse routing	O		an..14	
S003	INTERCHANGE RECIPIENT	M	1		
0010	Recipient Identification	M		an..35	ECCREX
0007	Partner identification	M		an..4	ZZ
0014	Routing adress	O		an..14	
S004	DATE/TIME OF PREPARATION	M	1		
0017	Date	M		n..6	YYMMDD
0019	Time	M		n..4	HHMM
0032	COMMUNICATIONS AGREEMENT ID	O	1	an..35	
0035	TEST INDICATOR	O	1	n..1	

Example: UNB+UNOA:1+123456:AB+ECCREX:ZZ+030905:1058+1024+1024'

UNH		Message header		M	1	
Function: To head, identify and specify a message						
0062	MESSAGE REFERENCE NUMBER	M		an..14	Contains a unique alphanumerical identification of a message	
S009	MESSAGE IDENTIFIER	M	1			
0065	Message type	M		an..6	ORDERS	
0052	Message version number	M		an..3	D	
0054	Message release number	M		an..3	99B	
0051	Controlling agency	M		an..2	UN	
0057	Association assigned code	O		an..6		
0068	COMMON ACCESS REFERENCE	O		an..35		
S010	STATUS OF THE TRANSFER	O	1			
0070	Sequence of transfers	M		n..2		
0073	First and last transfer	O				

Example: UNH+00002406000001+ORDERS:D:99B:UN'

BGM		Beginn of Message		M	1	
Function: The segment is used to transfer the order number						
C002	DOCUMENT/MESSAGE NAME	O	1			
1001	Document name code	M		an..3	220 = Order	
1131	Code list identification code	O		an..3		
3055	Code list responsible agency code	O		an..3		
1000	Document name	O		an..3		
C106	DOCUMENT/MESSAGE IDENTIFICATION	O	1			
1004	Document/message number SAP-Source: E1EDK02.BELNR E1EDK02.QUALF = 001	M		an..3	order number	
1056	Version	O		an..9		
1060	Revision number	O		an..6		
1225	MESSAGE FUNCTION CODE SAP-Source: E1EDK01.ACTION 001 = Original	O	1	an..3	9 = original	
4343	RESPONSE TYPE CODE	O	1	an..3		

Example: BGM+220+4500124041'

DTM		Date / Time / Period		M	35
Function: To specify date, and/or time, or period.					
C507	DATE/TIME/PERIOD	M	1		
	SAP-Source: E1EDK03.DATUM Qualifier: E1EDK03.IDDAT 002 = requested delivery date (2) 011 = date Idoc created (97) 012 = document date (137) 013 = quotation date supplier (171) SAP-Source: E1EDK02.DATUM Qualifier: E1EDK02.QUALF 001 = order date				(O) 97 = transaction creation date (O) 137 = document message date (O) 171 = reference date
2380	Date/time/period value SAP-Source: E1EDK03.DATUM SAP-Source: E1EDK02.DATUM	M		an..35	date according to qualifier
2379	Date/time/period format code	M		an..3	"102" = YYYYMMDD

Example: DTM+137:20030902:102'
 DTM+97:20030902:102'
 DTM+4:20030902:102'

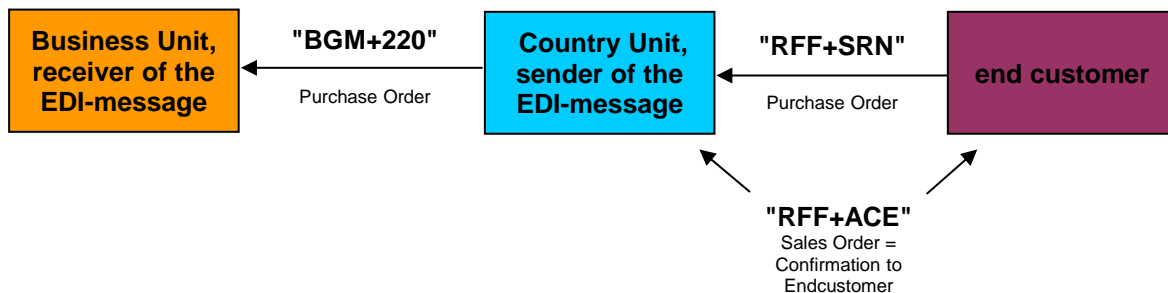
FTX		Free text		O	99	
Function: Free text						
4451	TEXT SUBJECT CODE QUALIFIER SAP-Source: E1EDKT1.TDID 001 = purchase order header (COI) 002 =purchase order memos (ORI) 007 = general information (AAI)	M	1	an..3	COI = order information ORI = order instruction AAI = general information	
4453	TEXT FUNCTION, CODED	O	1	an..3		
C107	TEXT REFERENCE	O	1			
4441	Free text value code	M		an..17		
1131	Code list identification code	O		an..3		
3055	Code list responsible agency code	O		an..3		
C108	TEXT LITERAL	O	1			
4440	Free text value SAP-Source: E1EDKT2.TDLINE	M		an..512	additonal text	
4440	Free text value SAP-Source: E1EDKT2.TDLINE	O		an..512	additonal text	
4440	Free text value SAP-Source: E1EDKT2.TDLINE	O		an..512	additonal text	
4440	Free text value SAP-Source: E1EDKT2.TDLINE	O		an..512	additonal text	
4440	Free text value SAP-Source: E1EDKT2.TDLINE	O		an..512	additonal text	
3453	LANGUAGE NAME CODE SAP-Source: E1EDKT1.TSSPRAS_ISO	O	1	an..3	DE = German EN = English FR = French	
4447	TEXT FORMATTING, CODED	O	1	an..3		

Example: FTX+COI+++additional text'

Segment Group: 1 (O)

RFF		Reference		M 9999	
Function: To specify a reference.					
C506	REFERENCE	M	1		
1153	Reference function code qualifier SAP-Source: E1EDK02.BELNR Qualifier: E1EDK02.QUALF 004 = vendor quotation (AAG) 010 = internal number (ACE) 002 = vendor order (VN) 044 = ship-to party's purchase order (SRN) 018 = senders reference to original message (AGO) 005 = frame contract	M		an..3	(O) AAG = offer number (O) ACE = related document no. (O) VN = order number (vendor) (O) SRN = shipment reference no. (O) CT = frame contract (O) AGO = senders reference to original message
1154	Reference identifier SAP-Source: E1EDK02.BELNR	M		an..35	offer number, shipment ref., ...
1156	Line number SAP-Source: E1EDK02.ZEILE	O		an..6	line number
4000	Reference version identifier	O		an..35	
1060	Revision number	O		an..6	

Example: RFF+SRN:10258:00010'



Segment Group: 1 (M)

DTM		Date / Time / Period		O	35
Function: To specify date, and/or time, or period.					
C507	DATE/TIME/PERIOD	M	1		
2005	Date/time/period function code qualifier SAP-Source: E1EDK02.QUALF 002 = vendor order (4) 004 = vendor quotation (137)?????	M		an..3	4 = order date 137 = document message date
2380	Date/time/period value SAP-Source: E1EDK02.DATUM	M		an..35	date
2379	Date/time/period format code	M		an..3	"102" = YYYYMMDD

Example: DTM+4:20030902:102'

Segment Group 2 (M)

NAD		Name and address		M	1	
Function: To specify the name/address and their related function						
3035	PARTY FUNCTION CODE QUALIFIER	M	1	an..3	<input type="radio"/> AB = buyers agent <input type="radio"/> BT = party to be billed <input checked="" type="radio"/> BY = buyer <input checked="" type="radio"/> CA = carrier <input type="radio"/> CN = consignee (ship to) <input type="radio"/> PR = payer <input checked="" type="radio"/> SU = supplier	SAP-Source: E1EDKA1.PARVW EK = buyers agent RE = party to be billed AG = buyer SP = carrier WE = consignee (ship to) ZM = contact party RG = payer VR = sellers agent LF = supplier
C082	PARTY IDENTIFICATION DETAILS	O	1			
3039	Party identifier	M		an..35	party identification	SAP-Source: E1EDKA1.PARTN
1131	Code list identification code	O		an..3		
3055	Code list responsible agency code	O		an..3		
C058	NAME AND ADDRESS	O	1			
3124	Name and address line	M		an..35		
3124	Name and address line	O		an..35		
3124	Name and address line	O		an..35		
3124	Name and address line	O		an..35		
3124	Name and address line	O		an..35		
C080	PARTY NAME	O	1			
3036	Party name	M		an..35	name1	SAP-Source: E1EDKA1.NAME1
3036	Party name	O		an..35	name2	SAP-Source: E1EDKA1.NAME2
3036	Party name	O		an..35	name3	SAP-Source: E1EDKA1.NAME3

3036	Party name SAP-Source: E1EDKA1.NAME4	O		an..35	name4
3036	Party name	O		an..35	
3045	Party name format code	O		an..3	
C059	STREET	O	1		
3042	Street and number/p.o. box SAP-Source: E1EDKA1.STRAS	M		an..35	street an number or P.O. box
3042	Street and number/p.o. box SAP-Source: E1EDKA1.STRS2	O		an..35	street an number or P.O. box
3042	Street and number/p.o. box SAP-Source: E1EDKA1.PFACH	O		an..35	P.O. box
3042	Street and number/p.o. box	O		an..35	
3164	CITY NAME SAP-Source: E1EDKA1.ORT01	O	1	an..35	city
C819	COUNTRY SUB-ENTITY DETAILS	O	1		
3229	Country sub-entity name code	O		an..9	
1131	Code list identification code	O		an..3	
3055	Code list responsible agency code	O		an..3	
3228	Country sub-entity name	O		an..35	
3251	POSTAL IDENTIFICATION CODE SAP-Source: E1EDKA1.PSTLZ	O	1	an..17	postcode identification
3207	COUNTRY NAME CODE SAP-Source: E1EDKA1.LAND1	M	1	an..3	DE = German EN = English FR = French (other ISO-Codes can be agreed)

Example: NAD+CN+7084++BRI LOHR:BOSCH REXROTH AG+ZUM EISENGIESSER 1+LOHR++97816+DE'

Segment Group: 2 (O)

LOC		Place/location identification		O	99	
Function: To identify a place or a location						
3227	LOCATION FUNCTION CODE QUALIFIER	M	1	an..3	7 = Place of delivery	
C517	LOCATION IDENTIFICATION	O	1			
3225	Location name code SAP-Source: E1EDKA1.ABLAD	M		an..25	Place of delivery - identification	
1131	Code list identification code	C		an..3		
3055	Code list responsible agency code	C		an..3		
3224	Location name	C		an..256		
C519	RELATED LOCATION ONE IDENTIFICATION	O	1			
3223	Related place/location one identification	O		an..25		
1131	Code list identification code	O		an..3		
3055	Code list responsible agency code	M		an..3	92 = assigned by buyer	
3222	Related place/location one	O		an..70		
C553	RELATED LOCATION TWO IDENTIFICATION	O	1			
3233	Related place/location two identification	O		an..25		
1131	Code list identification code	O		an..3		
3055	Code list responsible agency code	O		an..3		
3232	Related place/location two	O		an..70		
5479	RELATION, CODED	O	1	an..3		

Example: LOC+7+451+::92



Segment Group: 2 (O)

Segment Group: 5 (O)

CTA Contact information		M	1		
Function: To identify a person or a department					
3139	CONTACT FUNCTION CODE	M	1	an..3	IC = Information contact PD = purchasing contact
C056 DEPARTMENT OR EMPLOYEE DETAILS					
3413	Department or employee identification IC: SAP-Source: E1EDKA1.BNAME PD: SAP-Source: E1EDKA1.PAGRU	M		an..17	name or identification
3412	Department or employee	O		an..35	

Example: CTA+IC+Meier'



Segment Group: 2 (O)

Segment Group: 5 (O)

COM		Communication contact		O	5	
Function: To identify a communication number						
C076	COMMUNICATION CONTACT	M	3			
3148	Communication number SAP-Source: E1EDKA1.TELF1 SAP-Source: E1EDKA1.TELF2 SAP-Source: E1EDKA1.TELFX	M		an..512	Phone Fax E-Mail	
3155	Communication number code qualifier	M		an..3	FX = fax TE = telephone EM = electronic mail	

Example: COM+edi.admin@boschrexroth.de:EM'

Segment Group: 7 (O)

CUX Currencies		M	1		
Function: To specify currencies used in the transaction					
C504	CURRENCY DETAILS	O	1		
6347	Currency details qualifier	M		an..3	2 = reference currency
6345	Currency identification code	M		an..3	EUR = Euro (all ISO-codes can be used)
	SAP-Source: E1EDK01.CURCY				
6343	Currency qualifier	M		an..3	9 = order currency
6348	Currency rate base	O		n..4	
C504	CURRENCY DETAILS	O	1		
6347	Currency details qualifier	M		an..3	
6345	Currency identification code	O		an..3	
6343	Currency qualifier	O		an..3	
6348	Currency rate base	O		n..4	
5402	RATE OF EXCHANGE	O	1	n..12	
6341	EXCHANGE RATE CURR. MARKET IDENTIFIER	O	1	an..3	

Example: CUX+2:EUR:9'

Segment Group 10 (M)

TDT		Details of transport		O	1	
Function: To specify the transport details						
8051	TRANSPORT STAGE CODE QUALIFIER	M	1	an..3	"XX" - fix value	
8028	CONVEYANCE REFERENCE NUMBER	O	1	an..17		
C220	MODE OF TRANSPORT	O	1			
8067	Transport mode name code SAP-Source: E1EDK01.VSART	M		an..3	1 = seafreight 2 = train 3 = truck 4 = airfreight 5 = mail 9 = express	
8066	Transport mode name SAP-Source: E1EDK01.VSART_BEZ	M		an..17	transport mode - short text	
C228	TRANSPORT MEANS	O	1			
8179	Transport means description code	O		an..8		
8178	Transport means description	O		an..17		
C040	CARRIER	O	1			
3127	Carrier identification	O		an..17		
1131	Code list identification code	O		an..3		
3055	Code list responsible agency code	O		an..3		
3128	Carrier name	O		an..35		
8101	TRANSIT DIRECTION INDICATOR CODE	O	1	an..3		
C401	EXCESS TRANSPORTATION INFORMATION	O	1			
8457	Excess transportation reason, coded	M		an..3		
8459	Excess transportation responsibility, coded	M		an..3		
7130	Customer authorization number	O		an..17		
C222	TRANSPORT IDENTIFICATION	O	1			
8213	Transport means identification name identifier	O		an..9		
1131	Code list identification code	O		an..3		
3055	Code list responsible agency code	O		an..3		
8212	Transport means identification name	O		an..35		
8453	Nationality of means of transport, coded	O		an..3		

Example: TDT+XX++01:seafreight'

Segment Group: 16 (O)

SCC		SCHEDULING CONDITIONS		O	1	
Function: To specify scheduling conditions						
4017	DELIVERY PLAN COMMITMENT LEVEL CODE	M	1	an..3	1 = Firm	
4453	DELIVERY INSTRUCTION, CODED	O	1	an..3	SC = Ship complete order	
	SAP-Source: DC1.K01:AUTLF = "X"					
C329	PATTERN DESCRIPTION	O	1			
2013	Frequency code	O		an..3		
2015	Despatch pattern, coded	O		an..3		
2017	Despatch pattern timing, coded	O		an..3		

Example: SCC+1+SC

Segment Group: 28 (M)

LIN	Line item	M			
Function: To identify a line item and configuration					
1082	LINE ITEM NUMBER SAP-Source: E1EDP01.POSEX	M	1	an..6	line item number
1229	ACTION DESCRIPTION CODE SAP-Source: E1EDP01.ACTION Qualifier: 001 = new	M	1	an..3	1 = new
C212	ITEM NUMBER IDENTIFICATION	O	1		
7140	Item number SAP-Source: E1EDP19.IDTNR Qualifier: E1EDP19.001	M		an..35	customers article number
7143	Item type identification code	M		an..3	BP = buyers part number
1131	Code list identification code	O		an..3	
3055	Code list responsible agency code	O		an..3	
C829	SUB-LINE INFORMATION	O	1		
5495	Sub-line indicator, coded	O		an..3	1 = subline informationen
1082	Line item number SAP-Source: E1EDP01.UEPOS	O		an..6	item number of higher-level item, to which this item belongs in a BOM hierarchy
1222	CONFIGURATION LEVEL	O	1	n..2	
7083	CONFIGURATION, CODED	O	1	an..3	

Example: LIN+10+1+R902433711:BP'

Segment Group: 28 (M)

PIA		Additional product id		O	25	
Function: To specify additional or substitutional item identification codes						
4347	PRODUCT ID. FUNCTION QUALIFIER	M	1	an..3	5 = product identification	
C212	ITEM NUMBER IDENTIFICATION	M	1			
7140	Item number SAP-Source: E1EDP19.IDTNR Qualifier: E1EDP19.002	M		an..35	material number (vendor)	
7143	Item type identification code	M		an..3	SA = suppliers article	
1131	Code list identification code	O		an..3		
3055	Code list responsible agency code	O		an..3		
C212	ITEM NUMBER IDENTIFICATION	O	1			
7140	Item number	O		an..35		
7143	Item type identification code	O		an..3		
1131	Code list identification code	O		an..3		
3055	Code list responsible agency code	O		an..3		
C212	ITEM NUMBER IDENTIFICATION	O	1			
7140	Item number	O		an..35		
7143	Item type identification code	O		an..3		
1131	Code list identification code	O		an..3		
3055	Code list responsible agency code	O		an..3		
C212	ITEM NUMBER IDENTIFICATION	O	1			
7140	Item number	O		an..35		
7143	Item type identification code	O		an..3		
1131	Code list identification code	O		an..3		
3055	Code list responsible agency code	O		an..3		
C212	ITEM NUMBER IDENTIFICATION	O	1			
7140	Item number	O		an..35		
7143	Item type identification code	O		an..3		
1131	Code list identification code	O		an..3		
3055	Code list responsible agency code	O		an..3		

Example: PIA+5+02433711:SA'

Segment Group: 28 (M)

IMD		Item description		O	99	
Function: To describe an item						
7077	ITEM DESCRIPTION TYPE, CODED	M	1	an..3	F = free text	
C272	ITEM CHARACTERISTIC	M	1			
7081	Item characteristic code	M		an..3	8 = product	
1131	Code list identification code	O		an..3		
3055	Code list responsible agency code	M		an..3	91 = assigned by seller 92 = assigned by customer	
	SAP-Source: E1EDP19.QUALF 001 = assigned by customer 002 = assigned by seller 003 = EAN product description					
C273	ITEM DESCRIPTION	O	1			
7009	Item description identification	O		an..17		
1131	Code list identification code	O		an..3		
3055	Code list responsible agency code	O		an..3		
7008	Item description	O		an..256	material description - short text	
	SAP-Source: E1EDP19.KTEXT					
7008	Item description	O		an..256	material description - short text	
	SAP-Source: E1EDP19.KTEXT					
3453	Language name code	O		an..3		
7383	SURFACE/LAYER CODE	O	1	an..3		

Example: IMD+F+8+::92:P A4VSG 71 HS3K /10R-PPB10H029F'

Segment Group: 28 (M)

QTY		Quantity		O	99
Function: To specify a quantity					
C186	QUANTITY DETAILS	M	1		
6063	Quantity type code qualifier	M		an..3	21 = ordered quantity
6060	Quantity SAP-Source: E1EDP01.MENGE	M		an..35	
6411	Measurement unit code	M		an..3	CMT = centimeter GRM = gram LTR = litre MTR = metre MLT = millimetre NMP = package NPL = parcel PCE = piece BAR = plate KGM = kilogram
	SAP-Source: E1EDP01.MENEE				

Example: QTY+21:1:PCE'

Segment Group: 28 (M)

DTM		Date / Time / Period		M	35
Function: To specify date, and/or time, or period.					
C507	DATE/TIME/PERIOD	M	1		
2005	Date/time/period function code qualifier SAP-Source: E1EDP03.IDDAT 002 = requested delivery date 011 = transaction creation date	M		an..3	(M) 2 = requested delivery date (O) 97 = transaction creation date
2380	Date/time/period value SAP-Source: E1EDP03.DATUM SAP-Source: E1EDP20.EDATU if possible: use P20.EDATU for requested delivery date	M		an..35	
2379	Date/time/period format code	M		an..3	"102" = YYYYMMDD

Example: DTM+2:20030902:102'



Segment Group: 28 (M)

MOA		Monetary amount		O	10
Function: To specify a monetary amount					
C516	MONETARY AMOUNT	M	1		
5025	Monetary amount type code qualifier	M		an..3	203 = line item amount (net)
5004	Monetary amount value	M		n..35	amount
SAP-Source: E1EDP01.NETWR					
6345	Currency identification code	O		an..3	
6343	Currency qualifier	O		an..3	
4405	Status description code	O		an..3	

Example: MOA+203:4342.84'



Segment Group: 28 (M)

GIR		Related identification number		O	1000
Function: To specify a monetary amount					
7297	Identification qualifier	M		an..3	8 = Contract
C206	IDENTIFICATION NUMBER	M	1		
7402	Object identifier	M		an..35	Kanban number
7405	Object identification code qualifier	M		an..3	AL = Kanban card number
SAP-Source: E1EDP01.NETWR					

Example: GIR+8+0000002837:AL'

Segment Group: 28 (M)

FTX		Free text		O	99	
Function: Free text						
4451	TEXT SUBJECT CODE QUALIFIER SAP-Source: E1EDPT1.TDID 004 = line item text Z100 = contains material number of end-customer	M	1	an..3	LIN = line item text	
4453	TEXT FUNCTION, CODED	M	1	an..3		
C107	TEXT REFERENCE	O	1			
4441	Free text value code	M		an..17		
1131	Code list identification code	O		an..3		
3055	Code list responsible agency code	O		an..3		
C108	TEXT LITERAL	O	1			
4440	Free text value SAP-Source: E1EDPT2.TDLINE	M		an..512	additonal text	
4440	Free text value SAP-Source: E1EDPT2.TDLINE	O		an..512	additonal text	
4440	Free text value SAP-Source: E1EDPT2.TDLINE	O		an..512	additonal text	
4440	Free text value SAP-Source: E1EDPT2.TDLINE	O		an..512	additonal text	
4440	Free text value SAP-Source: E1EDPT2.TDLINE	O		an..512	additonal text	
3453	LANGUAGE NAME CODE SAP-Source: E1EDKT1.TSSPRAS_ISO	M	1	an..3	DE = German EN = English FR = French (other ISO-Codes agreeable)	
4447	TEXT FORMATTING, CODED	O	1	an..3		

Example: FTX+LIN+1+F01+some line item text+DE'



Segment Group: 28 (M)

Segment Group: 29 (O)

CCI		Characteristic/class id	M	9999	
Function: To identify and describe a specific characteristic					
7059	CLASS TYPE CODE	M	1	an..3	3 = component of measurable quantity
C502	MEASUREMENT DETAILS	O	1		
6313	Measured attribute code	M		an..3	ZZZ = mutual defined (... further codes can be agreed)
6321	Measurement significance, coded	O		an..3	4 = equal to (=)
6155	Non-discrete measurement name code	O		an..17	
6154	Non-discrete measurement name SAP-Source: E1CUVAL.CHARC or E1CUVAL:CHAR_TXT	M		an..70	text
C240	PRODUCT CHARACTERISTIC	O	1		
7037	Characteristic description code	M		an..17	
1131	Code list identification code	O		an..3	
3055	Code list responsible agency code	O		an..3	
7036	Characteristic description	O		an..35	
7036	Characteristic description	O		an..35	
4051	CHARACTERISTIC RELEVANCE, CODED	M	1	an..3	2 = required within orders

Example: CCI+3+ZZZ:4::stroke++2'



Segment Group: 28 (M)

Segment Group: 29 (O)

CAV		Characteristic value		M	10	
Function: To provide the value of a characteristic						
C889	CHARACTERISTIC VALUE	M	1			
7111	Characteristic value, coded	O		an..3		
1131	Code list identification code	O		an..3		
3055	Code list responsible agency code	M		an..3		91 = assigned by seller 92 = assigned by buyer
7110	Characteristic value SAP-Source: E1CUVAL.VALUE	M		an..35		value (separators are not allowed e. g. 1.200 or 1,200)
7110	Characteristic value	O		an..35		

Example: CAV+::92:1200'



Segment Group: 28 (M)

Segment Group: 29 (O)

MEA Measurements		O	10		
Function: To identify and describe a specific characteristic					
6311	MEASUREMENT ATTRIBUTE CODE	M	1	an..3	AAA = line item measurement
C502	MEASUREMENT DETAILS	O	1		
6313	Measured attribute code	O		an..3	
6321	Measurement significance, coded	O		an..3	
6155	Non-discrete measurement name code	O		an..1	CMT = centimeter GRM = gram LTR = litre MTR = metre MLT = millimetre NMP = package NPL = parcel PCE = piece BAR = plate KGM = kilogram
6154	Non-discrete measurement name	O		an..7	
C174	VALUE/RANGE	O	1		
6411	Measurement unit code	M		an..3	
6314	Measurement value	O		an..18	
6162	Range minimum	O		n..18	
6152	Range maximum	O		n..18	
6432	Significant digits	O		n..2	
7383	SURFACE/LAYER CODE	O	1	an..3	

Example: MEA+AAA+::MLT'



Segment Group: 28 (M)

Segment Group: 32 (O)

PRI Price details		M	1		
Function: To specify price information.					
C509	PRICE INFORMATION	M	1		
5125	Price qualifier	M		an..3	AAA = net price INF = additional price information
5118	Price SAP-Source: E1EDP01.VPREIS SAP-Source: E1EDP01.BETRG	M		n..15	price (copper)
5375	Price type, coded	O		an..3	
5387	Price specification code SAP-Source: E1EDP05.KSCHL CU1 = AAR CU2 = ABJ	O		an..3	AAR = material share (copper) ABJ = market price (copper) only used with price qualifier INF!
5284	Unit price basis SAP-Source: E1EDP01.BMNG2 SAP-Source: E1EDP05.UPRBS	M		n..9	Unit price basis
6411	Measurement unit code SAP-Source: E1EDP01.PEINH SAP-Source: E1EDP05.MEAUN	M		an..3	measure unit qualifier
5213	SUB-LINE PRICE CHANGE, CODED	O	1	an..3	

Example: PRI+AAA:100:::1:PCE'
 PRI+INF:-0.6::AAR:100:GRM'
 PRI+INF:2.1::ABJ:100:GRM'

PRI+INF is only used to provide information about today's copper price for certain processes

Segment Group: 28 (M)

Segment Group: 33 (O)

RFF Reference		M	1		
Function: To specify a reference.					
C506	REFERENCE	M	1		
1153	Reference function code qualifier Qualifier: E1EDP02.QUALF 004 = vendor quotation (AAG) 010 = internal number (ACE) 002 = vendor order (VN) 044 = ship to party's purchase order (SRN) 005 = frame contract 016 = drawing number 018 = senders reference to original message P01.WERKS = PE P01.LGORT = WS	M		an..3	(O) AAG = offer number (O) ACE = related document no. (O) VN = order number (vendor) (O) SRN = shipment reference no. (O) CT = frame contract (O) AAL = drawing number (O) AGO = senders reference to the original message (O) PE = plant number (internal use only) (O) WS = warehouse storage loc. (internal use only)
1154	Reference identifier SAP-Source: E1EDP02.BELNR	M		an..35	offer number, shipment ref., ...
1156	Line number SAP-Source: E1EDP02.ZEILE	M		an..6	line number
4000	Reference version identifier	O		an..35	
1060	Revision number SAP-Source: E1EDP02.ZEILE SAP-QUALF: 0016	O		an..6	drawing number

Example: RFF+SRN:10258:00010'
RFF+AAL:R98123456:::A'



Segment Group: 28 (M)

Segment Group: 33 (O)

DTM		Date / Time / Period		O	5
Function: To specify date, and/or time, or period.					
C507	DATE/TIME/PERIOD	M	1		
2005	Date/time/period function code qualifier SAP-Source: E1EDP02.QUALF 001 = document message date 004 = order date	M		an..3	4 = order date 137 = document message date
2380	Date/time/period value SAP-Source: E1EDP02.DATUM	M		an..35	date
2379	Date/time/period format code	M		an..3	"102" = YYYYMMDD

Example: DTM+4:20030902:102'

Segment Group: 28 (M)

Segment Group: 39 (O)

NAD		Name and address		M	1	
Function: To specify the name/address and their related function						
3035	PARTY FUNCTION CODE QUALIFIER	M	1	an..3	CN = consignee (ship to)	
C082	PARTY IDENTIFICATION DETAILS	O	1			
3039	Party identifier	M		an..35	party identification	
1131	Code list identification code	O		an..3		
3055	Code list responsible agency code	O		an..3		
C058	NAME AND ADDRESS	O	1			
3124	Name and address line	M		an..35		
3124	Name and address line	O		an..35		
3124	Name and address line	O		an..35		
3124	Name and address line	O		an..35		
3124	Name and address line	O		an..35		
C080	PARTY NAME	O	1			
3036	Party name	M		an..35	name1	
3036	Party name	O		an..35	name2	
3036	Party name	O		an..35	name3	
3036	Party name	O		an..35	name4	
3036	Party name	O		an..35		
3045	Party name format code	O		an..3		
C059	STREET	O	1			
3042	Street and number/p.o. box	M		an..35	street an number or P.O. box	
3042	Street and number/p.o. box	O		an..35	street an number or P.O. box	
3042	Street and number/p.o. box	O		an..35	P.O. box	
3042	Street and number/p.o. box	O		an..35		
3164	CITY NAME	O	1	an..35	city	
C819	COUNTRY SUB-ENTITY DETAILS	O	1			
3229	Country sub-entity name code	O		an..9		
1131	Code list identification code	O		an..3		
3055	Code list responsible agency code	O		an..3		
3228	Country sub-entity name	O		an..35		
3251	POSTAL IDENTIFICATION CODE	O	1	an..17	postcode identification	
3207	COUNTRY NAME CODE	M	1	an..3	DE = German EN = English FR = French (other ISO-Codes can be agreed)	

Example: NAD+CN+7084++BRI LOHR:BOSCH REXROTH AG+ZUM EISENGIESSER 1+LOHR++97816+DE'



UNS	Section control	M	1	
Function: Section Control				
0081	Section identification	M	1	1 S = detail/summary separation

Example: UNS+S'

MOA Monetary amount		O	99		
Function: Monetary amount					
C516	MONETARY AMOUNT	M	1		
5025	Monetary amount type code qualifier SAP-Source: E1EDS01.SUMID 002 = document amount (net)	M		an..3	203 = document amount (net)
5004	Monetary amount value SAP-Source: E1EDS01.SUMME	M		n..35	amount
6345	Currency identification code	O		an..3	
6343	Currency qualifier	O		an..3	
4405	Status description code	O		an..3	

Example: MOA+203:4342.84'



CNT		Control total		O	10
Function: number of line items					
C270	CONTROL	M	1		
6069	Control total type code qualifier	M		an..3	2 = number of line items
6066	Control value SAP-Source: E1EDS01.SUMME Qualifier: E1EDS01.QUALF 001 = number of lines	M		n..18	
6411	Measurement unit code	O		an..3	

Example: CNT+2:1'



UNT		Message trailer		M	1	
Function: To end and check the completeness of a message						
0074	NUMBER OF SEGMENTS IN THE MESSAGE	M	1	n..6	number of segments	
0062	MESSAGE REFERENCE NUMBER	M	1	an..14	message reference (like UNH)	

Example: UNT+76+00002406000001'



UNZ Interchange trailer		M	1		
Function: To end and check the completeness of an interchange					
0036	INTERCHANGE CONTROL COUNT	M	1	n..6	The count of the number of messages
0020	INTERCHANGE CONTROL REFERENCE	M	1	an..14	identical to 0020 in UNB

Example: UNZ+2+1024'



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