

Amphenol

Amphenol-Tuchel Electronics GmbH

Supplier Manual Revision 07



Introduction

As a renowned manufacturer of plug connectors, **customer satisfaction** is our **top priority**.

To achieve this, we need high-quality and reliable suppliers with social, ethical and environmental responsibility. These help us to fulfill and exceed the high expectations of our customers.

The **essential requirements** for this are **100% delivery reliability** and focusing on achieving the goal of **ZERO DEFECT quality**.

This manual describes Amphenol-Tuchel Electronics GmbH's requirements for its suppliers of production materials in the various phases of the product life cycle and, like our general terms and conditions of purchase, which you can find at <https://amphenol-automotive.de/downloads/>, is an integral part of every purchase contract.

Amphenol-Tuchel Electronics GmbH expects **proactive** support from its suppliers.


- **Proactive** support means dealing with problems before they occur.
- A **proactive** supplier looks out for potential problems following the motto: "I need this information - so I'll get it myself" instead of waiting for it to become a real problem.
- Our **proactive** supplier constantly promotes the environment and safety through compliance with the law, environmentally friendly processes and non-toxic products.
- A **proactive** supplier actively shapes the path of continuous improvement.

All requested documents and information must be provided in German and English at no extra cost.


The agreement can be canceled by either party in writing with a notice period of 6 months to the end of the month.

The provisions of this agreement shall apply unless otherwise agreed in individual cases.

Heilbronn, 26.04.2024



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Notes:

Website address for downloading the current Supplier Manual and other relevant documents: <https://amphenol-automotive.de/downloads>

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1 Qualification phase

1.1 Supplier release

The supplier must maintain an active quality management system (QM system) certified to international standards by an accredited agency and operating at least in accordance with DIN EN ISO 9001.

However, we expect our suppliers to develop towards fulfilling the automotive requirements of IATF 16949 or to be certified in accordance with IATF16949.

In exceptional cases, non-automotive suppliers may be qualified by means of a system audit in accordance with ISO 9001.

If you are not certified yourself, retailers must confirm in writing that they only procure from certified suppliers.

The "Supplier Self-Assessment" [SSA] questionnaire must be completed in full and submitted to Amphenol-Tuchel Electronics GmbH as proof of quality capability. Valid certificates must be enclosed.

The supplier self-assessment must be sent to Amphenol-Tuchel Electronics GmbH before each audit (at least every 3 years) without being asked to do so and also on request.

The supplier must introduce and maintain an environmental management system with the aim that this complies with the DIN EN ISO 14001 specifications and can be certified.

1.2 Product release

The following steps must be carried out in accordance with IATF 16949 to ensure product quality requirements are met. The supplier is fully responsible for all its products and services in every phase of realization.

Unless otherwise agreed, sampling is required in accordance with PPAP Level 3 or VDA Volume 2 in the following cases:

- New supplier
- New part
- New tool
- Changed specification
- Changed production conditions
- New production site
- Prolonged suspension of production (> 12 months)

Any changes made by the supplier must be notified 6 months in advance and approved by Amphenol-Tuchel Electronics GmbH before they are implemented and labeled accordingly on initial delivery.

1.2.1 Process planning

1.2.1.1 Project planning

The sub-steps of a project must be planned in a suitable form. The documentation of the project plans must be sent to the responsible purchaser together with the offer.

1.2.1.2 Feasibility analysis

As part of the feasibility analysis, it must be determined whether a product can be manufactured

- in the required quantity,
- with the required quality and cost targets,
- by the target date

can be realized. The results of the feasibility analysis must be documented. These results remain with the supplier and must be made available on request.

1.2.1.3 Process FMEA (P-FMEA)

A systematic approach is essential for analyzing potential problems during process development, series start-up and series production. The FMEA method is an excellent tool for this purpose [1].

A P-FMEA must be created or supplemented for each sampling. This must be kept by the supplier and be immediately available or accessible on site on request.

[1] *Potential Failure Mode and Effects Analysis (FMEA)*

1.2.1.4 Process Flow Chart

A process flow chart must be created as the basis for test planning. This must be kept by the supplier and be immediately available on request.

1.2.1.5 Test planning

Test planning must take the form of a control plan in accordance with QS 9000 [2] or IATF 16949. A Cpk value of at least 2.00 must be maintained for SC/CC test characteristics and designated test dimensions. A sampling plan with c=0 must be used for sampling tests.

The control plan/production control plan and the test plan must be submitted at the time of sampling.

[2]	<i>Advanced Product Quality Planning and Control Plan (APQP)</i>	QS 9000
	<i>Maturity Level Assurance 3rd edition 2022</i>	VDA

1.2.2 Process analysis

1.2.2.1 Measuring and test equipment capability testing

Only capable measuring and testing equipment may be used. The capability must be demonstrated in accordance with QS 9000 [3] Measurement Systems Analysis (MSA).

Measuring equipment studies must be created or supplemented for each sampling for the test dimensions. These must be presented at the time of sampling.

[3]	<i>Measurement Systems Analysis (MSA)</i>	QS 9000
	<i>VDA Volume 5</i>	VDA

1.2.2.2 Preliminary examination of process capability

For all special characteristics defined in drawings (SC/CC characteristics), capability tests must be carried out in accordance with the points [4] and [5] below. The characteristics must achieve a **Ppk value** of at least 2.00. The results must be presented at the time of sampling.

The analysis should be carried out using a \bar{x}/R map on the basis of 25 random samples with at least 100 individual readings. The data must be taken from a production run under series conditions with at least 300 consecutive parts. The measured values are recorded in the production sequence. For multi-cavity molds, the process capability can be determined by a capability test of the extreme cavities (all cavities can be requested by ATE).

[4]	<i>Statistical Process Control (SPC)</i>	QS 9000
	<i>VDA Volume 4</i>	VDA
[5]	<i>Production Part Acceptance Procedure (PPAP)</i>	QS 9000
	<i>VDA Volume 2 (PPF)</i>	VDA

1.2.3 Sampling

1.2.3.1 Initial sampling

Sampling must always be carried out in accordance with the PPAP procedure.

Alternatively, these can be presented in accordance with the currently valid version of VDA Volume 2.

Characteristics that cannot be tested by the manufacturer must be confirmed by accompanying test certificates. Parts from multi-cavity molds must be marked, checked and recorded separately for each cavity.

When sampling surface parts, marked reference parts with a marked measuring point must be supplied.

1.2.3.2 Release check by Amphenol-Tuchel Electronics GmbH

The releasable parts must be submitted together with the

- Delivery note (delivery marked as sampling with release samples to the incoming goods department for the attention of QS-MT)
- Test plan and production control plan
- The results of the process capability studies and
- The EMPB PPAP form, alternatively VDA form
- Test drawing with figures

- Process flow chart

1.2.3.3 Release

If the initial samples meet the requirements, they are released in writing. Hidden defects that were not detected during the initial sample inspection can still be objected to later.

1.2.3.4 Release with conditions

If a release with conditions is granted, the characteristics listed in the report as requiring correction must be corrected and all characteristics affected by this must be resampled. An updated report must also be supplied with the corrected parts. Special measures (e.g. special release for a specific batch size) are documented on the EMPB.

1.2.3.5 Rejection of initial samples

If the initial samples are rejected, the initial sampling must be repeated after appropriate correction. In the event of deviations that were not communicated in advance, Amphenol-Tuchel Electronics GmbH reserves the right to invoice the costs of re-sampling.

1.2.4 International Material Data System (IMDS)*

The IMDS archives and manages all materials used in vehicle construction.

Suppliers of Amphenol-Tuchel Electronics GmbH and their subcontractors are requested to enter and maintain the materials of the parts supplied to Amphenol-Tuchel Electronics GmbH in the IMDS during initial sampling (IMDS No.: 12127).

The supplier is responsible for accuracy and completeness.

*Further information is available at <https://www.mdsystem.com> or see ATE IMDS Guideline N 22 000 0023.

1.2.5 Legal and regulatory requirements

The supplier shall document and ensure that all processes, products and services provided comply with the applicable legal and regulatory requirements of the country of use, the country of manufacture and the country of export specified by the customer, if notified to the supplier.

2 Serial production phase

2.1 Production

Production must be carried out in accordance with the conditions specified in the supplier's QM system or the conditions agreed with Amphenol-Tuchel Electronics GmbH. Series deliveries may only be made after written approval by Amphenol-Tuchel Electronics GmbH.

2.1.1 Documentation of test results

The supplier must document quality requirement documents and quality records (e.g. test results, ...) in a suitable form. Unless otherwise agreed, these documents must be stored securely for 15 years after the period of use. Quality requirement documents and quality records must be handed over to Amphenol-Tuchel Electronics GmbH on request within one working day. Complete traceability back to the source material must be guaranteed.

2.1.2 Internal process audits

Internal process audits must be carried out as part of the continuous improvement process (CIP) and to determine whether the processes and procedures used meet the specifications and requirements. The audits must be carried out by a process auditor certified under VDA 6.3 at appropriate intervals or on an event-driven basis (unscheduled). The weaknesses identified in the audit result must be remedied with effective action plans, specifying the corrective measures, the persons responsible and the deadlines for completion.

2.1.3 Product requalification tests

The requalification test must be carried out in accordance with the requirements of IATF 16949 or customer-specific requirements.

The supplier shall submit a corresponding requalification plan for this purpose. The supplier shall provide evidence of the requalification tests annually.

2.1.4 Complaints about material provided - if applicable

If the supplier is dealing with orders for which defective material was provided by Amphenol-Tuchel Electronics GmbH, the supplier must (if the material cannot be processed) report this material using the form ATE 554 "Complaint about provided material" to Amphenol-Tuchel Electronics GmbH at

lbt@amphenol-automotive.de.

After submitting the complaint, the supplier will receive an R number from Amphenol-Tuchel Electronics GmbH, which must be referenced to when returning the defective goods.

2.1.5 Material provided (incl. ATEA empties) - inventory differences - if applicable

The procedure for warehouse inventory differences is as follows.

- Counting inventory smaller than book inventory
If the counted warehouse inventory is smaller than the book inventory, it is assumed that the difference was taken from the warehouse inventory and only then "disappeared". The inventory difference is therefore posted as a withdrawal and the withdrawal, i.e. the difference, must be paid.
- Counting inventory greater than book inventory
If the counted warehouse inventory is greater than the book inventory, it is assumed that larger withdrawals were posted from the warehouse than actually took place. The inventory difference is therefore posted as a reversal of withdrawals. This results in exactly the opposite as in the case of "counted inventory smaller than book inventory". The book inventory must be adjusted to the actual inventory.
- The supplier undertakes to carry out a complete inventory of all materials provided (including ATEA empties) at least once a year. Differences must be analyzed and evaluated on a case-by-case basis. In the event of negative deviations, ATEA reserves the right to invoice the supplier for the differences (we therefore strongly recommend that the supplier has an empties management system!)

2.2 Deliveries

The basic aim is to process series deliveries via EDI and scheduling agreements. The associated timeframes, such as material and production release, are coordinated at the start of series production.

2.2.1 Export controls

The supplier declares that he will only supply goods and services that comply with the export control requirements of applicable law, EU regulations and US law. The supplier shall also check this regularly. This check already applies when requesting sample parts.

Amphenol-Tuchel Electronics GmbH will be informed immediately should a positive result be found in an audit. The current lists, regulations and legal provisions must be applied for the export control audit.

Amphenol-Tuchel Electronics GmbH must be informed if goods, products or services are listed in the current "Dual-Use Regulation", the list of goods "Annex 1 Export List Part A" or "Annex 1 Export List Part B". Amphenol-Tuchel Electronics GmbH must be informed if unlisted goods are subject to export restrictions.

2.2.2 Security declaration

The supplier shall submit a security declaration. This security declaration serves to ensure the continuity of the supply chain.

If the supplier has AEOC or AEOS status, or has already applied for such status, the security declaration is not required. In this case, appropriate proof must be provided.

AEOC = Authorized Economic Operator Customs

AEOS = Authorized Economic Operator Safety

2.2.3 Supplier's declaration

Amphenol-Tuchel Electronics GmbH requires an annual (October/November) long-term supplier's declaration for the following year for all series parts supplied to Amphenol-Tuchel Electronics GmbH. This long-term declaration must be made in accordance with the current requirements of the UCC Implementing Regulation (Customs Union Code).

Amphenol-Tuchel Electronics GmbH also requires a supplier's declaration for samples and pre-series parts. If a long-term declaration cannot be issued, an individual declaration with reference to the delivery is sufficient in this case.

2.2.4 Customs clearance

The supplier shall provide information on the country of origin and the customs tariff number (HS code) with reference to the Amphenol-Tuchel Electronics GmbH article number. For goods originating outside the EU, the country of origin and the customs tariff number must be listed on the commercial invoice. Changes must be reported to Amphenol-Tuchel Electronics GmbH immediately.

2.2.5 Opening hours incoming goods (Mon - Fri)

The goods acceptance times of the buyer's plants must be taken into account.

Heilbronn delivery time: 8 am to 9am 9:15 am to 12 pm 12:30 pm to 4 pm

Tunisia delivery time: 8 am to 4 pm

Mexico delivery time: 7 am to 7 pm Mon to Fri -> Saturdays from 8 am to 2 pm

If, in exceptional cases, delivery outside of opening hours is necessary, this must be agreed in advance with the buyer's responsible dispatcher.

2.2.6 Form of delivery

Fundamentally, delivered packages must be sorted and delivered with full containers/cartons/packaging units. Mixed deliveries or incomplete containers/cartons/packages are only permitted after consultation with Amphenol-Tuchel Electronics GmbH.

Mixed pallets: These must be clearly marked on the outside, and the different products must be clearly and separately identifiable and stacked according to type.

Incomplete containers/cartons/packaging units: These must be clearly marked from the outside and delivered on the top layer.

In principle, the supplier should use EU standard pallets (120x80cm) with a maximum height of 120cm and a maximum weight of 300kg. Deviations from this must be agreed on a case-by-case basis (not relevant for continuous deliveries).

All pallets must comply with the IPPC standard.

2.2.7 Ordering process and release plans

As far as possible, the entire ordering process is handled via EDI (in particular release plans, delivery bills and credit note procedures). If EDI is not available, the ordering process must be carried out online/via e-mail.

The delivery quantities and delivery times result exclusively from the delivery schedules or the individual orders.

Delivery schedules are generally preferred as standard over individual orders. If delivery schedules or an EDI connection are currently not possible, the supplier should provide a timeline for when implementation can take place.

If orders with E&F Incoterm clauses are used, the process "Deliveries E&F Incoterms Transit" must be taken into account. This will be sent to you separately as an attachment.

2.2.8 Order confirmations

In the case of individual orders, order confirmations must be provided within 3 working days, otherwise the order is deemed to have been accepted on the desired delivery date, including the price conditions. We do not expect an order confirmation for delivery schedules. If the last valid delivery schedule is not objected to within 5 working days of the call-off date, it shall be deemed to have been confirmed.

2.2.9 Invoicing

Invoices are to be sent electronically as a PDF file to the following e-mail addresses when the goods are dispatched:

Heilbronn: supplierinvoice@amphenol-automotive.de

Tunisia: supplierinvoice@amphenol-automotive.de

Mexico/USA: ate-us.supplier@amphenol-automotive.de

The invoices must comply with the legal requirements and contain the following information:

- Order number

- Supplier's delivery note number

2.2.10 Under- and over-deliveries

Fundamentally, under- and over-deliveries will not be accepted. The delivery parameters must be agreed in advance by both parties (e.g. packaging units).

If it is not possible to define exact batch sizes for technical process reasons, under-delivery and over-delivery limits are defined on both sides.

2.2.11 Delivery plans

Transfer frequency: 1 x per week (and as required in the event of changes in demand)

Delivery window: Delivery day(s) according to weekly delivery schedule

Delivery frequency: Deliveries that are to be made in addition to the agreed delivery frequencies/time windows require the approval of the buyer's material planning dispatcher.

Delivery release: Backlogs and current delivery date. Goods delivered too early (-3/0 days) or in excess will be returned at the supplier's expense after consultation.

Production/material release: If a delivery schedule is called off by Amphenol-Tuchel Electronics GmbH, this shall only constitute an obligation to accept the quantity of material specified therein if this quantity is within the release period of the production release and/or material release. If production and material releases are agreed, these are listed in the delivery schedule. Otherwise, Amphenol-Tuchel Electronics GmbH shall have no obligation to take delivery on the basis of delivery schedule call-offs.

The specified delivery date always corresponds to the arrival date at the buyer's delivery plant (for C and D clauses in the delivery terms and conditions) or the collection date at the supplier's delivery plant (FCA and EX W) or, in the case of FOB, at the specified port. The day of delivery and notification are based on the day of delivery and the process times. The supplier must ensure that this is defined and complied with.

If the specified delivery date is a public holiday in the country/state of the buyer's delivery address, the last working day before the public holiday shall be deemed the delivery date.

2.2.12 Supply of spare parts

The supplier must ensure the supply of spare parts for at least 10 years after the end of the series phase.

2.3 Packaging

The packaging must protect the parts against damage and soiling during transportation and storage.

The weights of individual packages must comply with health and safety regulations. Fundamentally, a maximum weight of 12 kg must not be exceeded. Deviations from this must always be noted on the packaging data sheet.

The packaging and shipping area must be subject to regular internal audits.

2.3.1 Marking

All deliveries must be clearly marked.

The marking with a white label must be permanently attached to each package and each container/carton within the package and must be easily legible (minimum font size 12 pt.). One label each must be attached to the front and long side (on the package and on the containers/cartons).

The label must guarantee traceability.

All labels/goods tags must comply with VDA 4994.

In exceptional cases, supplier-specific information can be applied in consultation with Amphenol-Tuchel Electronics GmbH.

2.3.1.1 Labeling of strip goods and raw strips

The information listed below must be entered on the card accompanying the strip and this must be attached to the reel in the pocket provided.

- Catalog no.

- Material no.
- Description
- Quantity
- Production date
- Drawing index (D Ind.)
- Batch

2.3.1.2 Labeling in the electroplating or subcontracting process

For relabeling in the electroplating or subcontracting process, please refer to our procedural instructions "Procedural instructions for relabeling in the electroplating or subcontracting process".

This will be sent to you separately.

2.3.1.3 Transport packaging

Transport packaging must be labeled in the same way then as the product packing. Additionally,

- the delivery bill no. and
- the order no.

must also be provided.

2.4 Documentation

2.4.1 Traceability

The supplier must ensure that its products can be traced back to the batches of raw material.

It must also be possible to trace the components, raw materials and processing parameters, as well as all parameters that have an influence on the properties and quality of the product.

Fundamentally, a batch should not exceed one pallet or rack. Deviations must be agreed on a case-by-case basis.

The supplier is also expected to work according to the FIFO principle.

2.4.2 Documentation accompanying deliveries

Unless otherwise specified, e.g. in the order (information based on the project) or a quality assurance agreement (QAA), at least the following test certificate in accordance with DIN 10204 must be enclosed with each delivery, depending on the product group:

- Raw material: Acceptance test certificate 3.1
- Surface parts: Test certificate regarding the coating thickness

The required test certificates must be sent with the goods and to the Amphenol-Tuchel Electronics GmbH e-mail address certificates@amphenol-automotive.de.

If material is provided by Amphenol-Tuchel Electronics GmbH, the supplier material certificates will also be supplied. When returning the processed material to Amphenol-Tuchel Electronics GmbH, those supplier material certificate must also be enclosed.

2.4.3 Safety data sheets

The contractor must ensure that Amphenol-Tuchel Electronics GmbH is always provided with the valid safety data sheet if the delivered substances fall under the currently valid laws on hazardous substances of the recipient country.

2.5 Incoming goods inspection by Amphenol-Tuchel Electronics GmbH

2.5.1 Inspection procedure

Depending on the quality history, Amphenol-Tuchel Electronics GmbH carries out various types of incoming goods inspections.

The following procedures are used:

Normal inspection

Each goods receipt is tested using a sampling procedure in accordance with DIN ISO 2859 Part 1, Table 1, test level I or II, with $c = 0$.

Skip lot inspection

After a qualifying phase, an inspection is carried out in the skip lot phase. In the event of complaints, the process immediately jumps back to the qualification phase.

Waiver of inspection

Amphenol-Tuchel Electronics GmbH only carries out an inspection for identity, quantity and transport damage when receiving goods.

2.5.2 Complaints

If defects are found in parts, the responsible supplier shall receive a written complaint report.

If necessary, the supplier must immediately provide sufficient personnel to rectify the problem on site. Alternatively, the supplier can hire externally. All damages and additional expenses, as well as any consequential damages caused (including financial losses within the meaning of §280 BGB (German Civil Code)) shall be charged to the supplier concerned in accordance with the applicable commercial rules. Returns shall be made against a charge, replacement deliveries against a corresponding new invoice.

2.5.3 Response to complaint (8D report)

The response must be submitted in writing as an 8D report within the required time frame (3D 24 hours and 8D within 10 days) by e-mail to: LBT@amphenol-automotive.de.

The complaint number (BB no.) and the name of the Amphenol-Tuchel Electronics GmbH QA representative must be stated in the subject line.

Fundamentally, the requirements of the complaint ATE 712 (complaints report) must be complied with.

2.5.4 Redeliveries

Redeliveries after successful 100% inspection or sorting / reworking must be clearly marked on a green label with the complaint number and date of reworking. Unless otherwise agreed, 3 subsequent deliveries must be inspected and marked in the same way.

2.5.5 Supplier evaluation for selected suppliers

The data from each goods receipt flows into the supplier evaluation. The main criteria of technical quality, along with the sub-criteria of incoming goods inspections and complaints and logistics with the sub-criteria of adherence to deadlines and quantities, are evaluated monthly using statistical data.

In addition, the supplier can receive bonus credits for above-average cooperation or suggestions, which has a positive effect on the supplier rating. This results in an overall rating with the classification levels A+, A, A/B, B and C supplier. The evaluation is regularly communicated to selected suppliers. B and C classified suppliers must submit a written action plan.

Suppliers classified as "C" will no longer be considered for inquiries.

2.5.6 Ownership structure

If Amphenol-Tuchel Electronics GmbH provides its suppliers with property (e.g. empties, scrap, etc.), this must be handled and managed to the best of its knowledge and belief and a complete record must be kept.

Amphenol-Tuchel Electronics GmbH reserves the right to have its property presented or reclaimed following mutual agreement.

Any loss/damage/depletion must be reported immediately by the supplier.

Amphenol-Tuchel Electronics GmbH reserves the right to invoice the supplier for such losses.

3 Supplementary agreements and regulations

3.1 Duty of non-disclosure

All information resulting from the cooperation between the supplier and Amphenol-Tuchel Electronics GmbH must be treated confidentially.

3.2 Duty to provide information

The supplier must inform Amphenol-Tuchel Electronics GmbH's Purchasing Department immediately and in good time before making any changes to manufacturing processes, materials or vendor parts for the products, relocating production sites or changing procedures or equipment for testing the products.

3.3 Audits

The supplier must give Amphenol-Tuchel Electronics GmbH the opportunity to convince itself of the effectiveness of the QM system in the course of audits. It will grant access to its business premises for this purpose and provide a professionally qualified member of staff to provide assistance during such an audit.

This also applies to customers of Amphenol-Tuchel Electronics GmbH in the context of audits by Amphenol-Tuchel Electronics GmbH.

Amphenol-Tuchel Electronics GmbH carries out standard audits of suppliers in accordance with the current version of VDA 6.3. The supplier shall carry out a self-audit prior to implementation and submit the results to Amphenol-Tuchel Electronics GmbH.

The supplier is responsible for acquiring the questionnaire.

The supplier must ensure that the above authorizations can also be extended to its subcontractors.

3.4 CQI “Continuous Quality Improvement”

CQI stands for a series of process engineering standards that can be used with Amphenol-Tuchel Electronics GmbH products. If these standards are applied by a supplier, it is the supplier's responsibility to audit the production process once a year using the currently valid documents and to submit the results to Amphenol-Tuchel Electronics GmbH.

The valid standards can be found on the homepage www.aiag.org.

3.5 Flammability certificates

The flammability test must be carried out in accordance with UL94. The special fire technology requirements for the materials and/or the components are specified by Amphenol-Tuchel Electronics GmbH. If the supplier's product is subject to these requirements, the supplier shall, at the request of Amphenol-Tuchel Electronics GmbH, prove the suitability of the material/component used free of charge with a current certificate of flammability in accordance with the relevant required standard.

3.6 Emergency plans

An emergency plan must define how Amphenol-Tuchel Electronics GmbH can continue to be supplied satisfactorily after a serious incident involving people, machines, materials, the environment and methods, as well as in the event of force majeure.

3.7 Exceptions

Deviations or exceptions from the provisions of the Supplier Manual will only be recognized if they are documented in writing in a QAA, in the specifications or in a recognized annex.

3.8 Contact person at Amphenol-Tuchel Electronics GmbH

The respective contact persons are named in the inquiry and order.

3.9 Storage of third-party property

Goods, products or supplementary goods that are the property of Amphenol-Tuchel Electronics GmbH must be stored and handled by the supplier in accordance with the common and recognized rules in this area of goods and recorded as inventory. If the inventory counted at a point in time is smaller than the book inventory, it is assumed that the difference was taken from the warehouse inventory and only then "disappeared". The inventory difference is therefore posted as a withdrawal and the withdrawal must be paid to the supplier.

3.10 Regulatory violations and refusal to accept

Compliance with the above regulations is a prerequisite for a smooth logistical process. Amphenol-Tuchel Electronics GmbH will incur additional costs as a result of any deviations from the regulations. Amphenol-Tuchel Electronics GmbH therefore reserves the right to charge these costs to the supplier in the event of violations. Furthermore, Amphenol-Tuchel Electronics GmbH reserves the right to return the goods to the supplier as freight collect in the event of irregularities. The return shipment will be organized by Amphenol-Tuchel Electronics GmbH. The resulting expenses shall be borne by the supplier.

The right to assert further claims for damages against the supplier remains unaffected.

3.11 Product Safety and Conformity Representative (PSCR)

The PSCR training certificate must be presented on request.

For deliveries of materials and services with end customer Volkswagen Group, the supplier confirms that the requirements described in Formula Q are known, recognized and complied with.

3.12 Data protection

You can find our privacy policy at: <https://amphenol-automotive.de/downloads/>

3.13 Trusted Information Security Assessment Exchange (TISAX) certification

Amphenol-Tuchel Electronics GmbH attaches great importance to the confidentiality and integrity of information. We fulfill the requirements of TISAX (VDA ISA). The supplier must ensure that sensitive and confidential information is protected. The relevant evidence must be presented on request.

The supplier must introduce and maintain an information management system with the aim that this complies with the TISAX requirements that could be certified.

4 Social, ethical and environmental responsibility

4.1 RBA

Amphenol-Tuchel Electronics GmbH expects its suppliers to comply with the applicable social laws of their country and to observe international environmental and ethical standards.

The self-assessment questionnaire from the United Nations Environment Program (UNEP) can be used as an aid. Download: https://www.responsiblebusiness.org/implement_tool.html

4.2 REACH Regulation

In order for Amphenol-Tuchel Electronics GmbH to fulfill its obligation to inform customers in accordance with Art. 33 REACH, we require information from you as to whether the products supplied to us contain substances subject to authorization, substances which must be declared or substances from the candidate list of the European Chemicals Agency (ECHA). If this is the case, please provide us with the names of the substances in writing and a typical concentration. In accordance with Art. 33 (2) of the above-mentioned EU Regulation, we hereby request you to provide us once with ongoing effect, within 45 days of any change affecting the obligation to provide information, free of charge, with the information pursuant to Art. 33 that is legally required as part of the disclosure of information and, if applicable, with further information concerning candidates, substances

which must be declared or substances subject to authorization covered by the Regulation or amendments to the Regulation.

Changes may relate to substances that:

- Are included in an extended list of candidates, or
- If substances were not registered or not successfully registered by the target date

Should you deliver products to us that do not comply with the REACH regulation, we reserve the right to take further measures such as exclusion of liability, compensation for damages, etc.

4.3 Conflict Minerals

The U.S. Congress has passed the "Dodd-Frank Wall Street Reform and Consumer Protection Act" into law. The European Union is also introducing a regulation on trading conflict commodities in 2021. This regulation obliges EU companies to identify, disclose and counteract risks in their supply chains. To ensure compliance with legal requirements, Amphenol-Tuchel Electronics GmbH has established a process using the "Conflict Minerals Reporting Template (CMRT)", a freely available and globally standardized questionnaire to determine the origin of conflict minerals. Amphenol-Tuchel Electronics GmbH expects its suppliers to apply this measure, as this is the only way to ensure transparency in the supply chain for conflict minerals. It is a declared goal of Amphenol-Tuchel Electronics GmbH that all conflict minerals are either obtained from the recycling loop or processed by a mineral smelter certified according to the "EICC/GeSI Conflict Free Smelter (CFS)" program.

Further information on conflict minerals can also be found on the CFSI website: <https://www.conflict-minerals.com>

4.4 RoHS

Compliance with the version of the RoHS (Restriction of the use of certain hazardous substances in electronic equipment, 2011/65/EU) applicable at the time of the respective delivery is fundamentally expected by Amphenol-Tuchel Electronics GmbH.

4.5 CO2 Footprint

This topic is very important to Amphenol-Tuchel Electronics GmbH. The supplier is obliged to report the corresponding CO2 values for the products delivered to us.

Unless otherwise agreed, verification takes place in accordance with the Greenhouse Gas Protocol (GHG).

4.6 CBAM - Carbon border adjustment mechanism

Only relevant for suppliers (country of delivery) outside the EU, and not relevant for suppliers (country of delivery) from Liechtenstein, Norway and Switzerland.

The supplier shall ensure that Amphenol-Tuchel Electronics GmbH is provided with all information and data required in accordance with the "COMMISSION IMPLEMENTING REGULATION (EU) 2018/2066".

The CO2 values are calculated in accordance with the "COMMISSION IMPLEMENTING REGULATION (EU) 2018/2066". The data is updated regularly, once a year, and automatically transmitted to Amphenol-Tuchel Electronics GmbH. Changes shall be communicated immediately.

The supplier shall incur the sanctions of the EU Commission in the event of incorrect data, data that is not up to date or data that is not provided on time.

In the event that the emission values have to be checked on site at the supplier's premises by an accredited test center, the supplier shall bear the necessary costs.

This also applies to other tests to determine the values, such as laboratory and other test methods.

4.7 EHS

EHS (Environment, Health and Safety) management is a basic requirement on the part of Amphenol-Tuchel Electronics GmbH.

4.8 Supply Chain Sustainability Act (Lieferkettensorgfaltsgesetz)

The supplier shall provide confirmation once a year that it complies with the legal requirements of the German Supply Chain Management Act (Lieferkettensorgfaltsgesetz).

5 Literature

- | | | |
|-----|--|-------------------------|
| [1] | <i>Potential Failure Mode and Effects Analysis (FMEA)</i> | QS 9000 |
| | FMEA Manual | (AIAG & VDA) |
| [2] | <i>Advanced Product Quality Planning and Control Plan (APQP)</i> | QS 9000 |
| | Maturity Level Assurance 3rd edition 2022 | VDA |
| [3] | <i>Measurement Systems Analysis (MSA)</i> | QS 9000 |
| | VDA Volume 5 | VDA |
| [4] | <i>Statistical Process Control (SPC)</i> | QS 9000 |
| | VDA Volume 4 | VDA |
| [5] | <i>Production Part Acceptance Procedure (PPAP)</i> | QS 9000 |
| | VDA Volume 2 (PPF) | VDA |

6 Confirmation of the Supplier Manual

**Amphenol-Tuchel
Electronics GmbH**

Company: _____
 Street: _____
 Zip code, city: _____
 Country: _____
 Phone: _____
 E-mail: _____
 Website: _____

Number of employees: _____ QS employees: _____ Home workers: _____

Sales year: _____ Subsidiary companies (location): _____

Is product liability insurance in place?
 No Yes. With which company? _____

Does product liability insurance also include cover for warranty claims?
 No Yes. With which company? _____ What amount is covered?

Is there recall cost insurance in place? No Yes. With which company? _____

Is there environmental liability insurance in place? No Yes. With which company? _____

Is Amphenol-Tuchel Electronics GmbH a new customer? Yes; No

Certified management system	Date	Executed by	Result
DIN EN ISO 9001 *			
IATF 16949 *			
DIN EN ISO 14001*			
TISAX*			
Other management system *			
Other management system *			
Personnel certifications	Name	Valid to	Comments
VDA 6.3 Auditor*			
PSCR*(Product Safety and Conformity Representative)			
Other certificate*			

*** Please attach existing certificates!**

By signing below, we confirm that we have read and accepted the current Revision 07 of the Amphenol-Tuchel Electronics GmbH Supplier Manual.

Date: _____ Signature: _____